SAMSUNG

460 SERIES HOSPITALITY TVs

A PREMIUM LED EXPERIENCE FROM THE LED INDUSTRY LEADER

32" Class LED | HG32NB460GF
40" Class LED | HG40NC460KF

KEY FEATURES

Direct-Lit LED Technology

Direct-lit LED technology provides the brilliance and energy savings advantages of LED technology, along with the uniform brightness typical of CCFL displays. And it does it all with an efficiency that makes it a more affordable technology. In fact, it's possible to upgrade your rooms to LED technology for a cost comparable to CCFL technology.

Samsung LYNK™ REACH 3.0 Content Management Solution

The Samsung REACH (Remote Enhanced Active Control for Hotels) Management Solution is used in conjunction with an existing coaxial-based infrastructure. It provides centralized TV controls, basic static content management capabilities and an Interactive Program Guide (IPG). Property management will be able to easily update and change information using a Windows-based system.

Samsung LYNK™ HD Content Decryption DRM

Samsung's software-based DRM technology is integrated into the entire Samsung 2014 Hotel TV line. Samsung LYNK™ offers a robust solution to unlock premium HDTV content from content providers such as cable, satellite and VOD providers, with maximum efficiency and security.

A Host of Features

Features include: Volume Limiters, Front Panel Lock-out, Menu Display Lock-out, Hotel Custom Logo/Welcome Message, Channel List Guide, Channel Re-mapping, USB Cloning and Anti-Theft Battery Cover Remote Control.

A PREMIUM AT-HOME, IN-ROOM EXPERIENCE THROUGH AFFORDABLE DIRECT-LIT LED TVs

The leading LED panel manufacturer in the world allows you to deliver a premium at-home, in-room experience to your guests, while still being budget-conscious. The Samsung 460 Series Hospitality TVs feature direct-lit LED technology, to deliver all the benefits of LED, while doing it more affordably. You get big, bright, beautiful pictures, while cost of entry is similar to that of a traditional CCFL back-lit option. LED uses up to 50% less energy, helping you conserve and save money. Content management is made simple too, with the Samsung REACH 3.0 management solution. Samsung's LYNK™ DRM technology protects content, while offering guests a seamless viewing experience. It's the platform that delivers a premium experience. The New Business Experience

HOSPITALITY TV SALES:

1-888-727-2664 | 1-866-SAM4BIZ

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THE NEW BUSINESS EXPERIENCE

Samsung 460 Series Hospitality TVs

Samsung Hospitality TVs are loaded with features that provide premier guest satisfaction, while making your job easier.

HOSPITALITY FEATURES

Anti-Theft Battery Cover
Battery door is secured, ensuring batteries remain in the remote controller.

Channel Remapping
Allows the hotelier to change channel and TV source to a different channel.

Clock On Timer and Alarm Key
Allows the guest to program the TV to turn on as a wake-up alarm.

Closed Captioning
A text display of all audio content, including spoken dialog and non-speech information such as the identity of the speakers and symbols for sound effects and music.

Hotel Channel List
Guest master channel listing of program content. This will display content in analog or HD.

Hotel Logo Display with Time Out Setting
Display hotel logo bitmap files as a greeting startup display.

Hotel Mode Plug & Play
Interactive stand-alone mode available.

Lockout Controls
The hotelier can enable front panel and menu display lock-outs.

OSD Language
Choose English/French/Spanish.

Picture-in-Picture
Display one program while another is being displayed on the full TV screen at the same time.

Power On Status Setting
Settings include power always on, last option or standby.

Multi-Code Remote
Eliminates interference when two or more TVs are used in close proximity to each other.

Samsung LYNK™ REACH 3.0 Content Management Solution
The Samsung LYNK™ REACH (Remote Enhanced Active Control for Hotels) Management Solution is used in conjunction with an existing coaxial-based infrastructure. It provides centralized TV controls, basic static content management capabilities and an Interactive Program Guide (IPG). Samsung REACH delivers, in a free-to-guest solution, content and information on such topics as your hotel, local and in-room dining, spa and exercise facilities, meetings and events, local attractions, and other simple guest convenience features. Property managers will be able to easily update and change information using a Windows®-based system.

Sleep Timer
Allows guest to set TV turn-off time in 30-minute intervals up to 180 minutes.

USB Cloning
A quick and easy way to copy the ideal settings off one television to others on the property. Saves time and helps provide a consistent viewing experience for all televisions.

CONNECTIONS

Anynet + (HDMI – CEC)
This Samsung protocol allows the user to control other HDMI devices connected to the TV display, such as DVD players, PC computers and Soundbars.

ConnectShare™ (USB 2.0)
Connect a thumb drive or digital camera quickly and easily. User-friendly interface allows access to videos, a music playlist and pictures via the remote.

Remote Jack Panel (RJP) Compatibility
GLINK   teleadapt

PICTURE QUALITY AND AUDIO

Auto Volume Limiter
During initial product setup, minimum and maximum volume levels can be locked to help minimize disturbance to other hotel guests.

720p, MPEG4
Samsung 460 Series TVs feature HD 720p. All TVs also are compatible with MPEG4.

Music Mode (Input: HDMI/AV/Component)
Allows audio feedback when picture is muted.

Music Mode Backlight On/Off
Shows a background display.

Direct-Lit LED Technology
Direct-lit LED technology provides the brilliance and energy savings advantages of LED technology, along with the uniform brightness typical of CCFL displays. And it does it all with an efficiency that makes it a more affordable technology. In fact, it's possible to upgrade your rooms to LED technology for a cost comparable to CCFL technology. When you add the energy savings of up to 50% that LED offers over CCFL, you end up with the perfect solution for both you and your guests.

Soundbar Compatible (HW-H530H/ZA)
Samsung Hospitality Displays enable Soundbar compatibility by supporting HDMI-CEC. When you connect the Soundbar to the Samsung Hospitality Display with an HDMI cable, the TV audio settings and menu lock feature are automatically applied, so you don't have to set up the Soundbar separately. You can also prevent guests from changing the settings. With one single remote, guests can control both the TV and Soundbar simultaneously.

WARRANTY

2-year parts and 2-year labor warranty backed by Samsung Hospitality Hotline 1-866-894-0524. Optional professional installation, accessories and extended warranty are available.

Samsung 460 Series Hospitality TVs

DIGITAL RIGHTS MANAGEMENT (DRM)

Samsung LYNK™ HD Content Decryption DRM

Samsung's software-based DRM technology is integrated into the entire Samsung 2014 Hotel TV line. Samsung LYNK™ offers a robust solution to unlock premium HDTV content from content providers such as cable, satellite and VOD providers, with maximum efficiency and security.

Dimensions
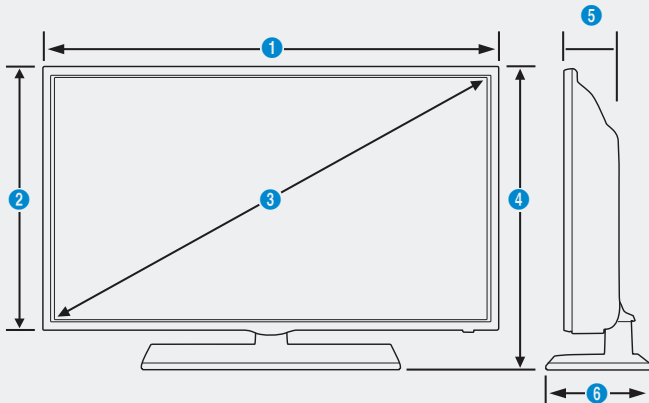
32" | HG32NB460GF - 720p | 1200:1 Contrast Ratio

①	②	③	④	⑤	⑥
29.07"	17.48"	32"	19.59"	3.6"	7.55"

40" | HG40NC460KF - 720p | 5000:1 Contrast Ratio

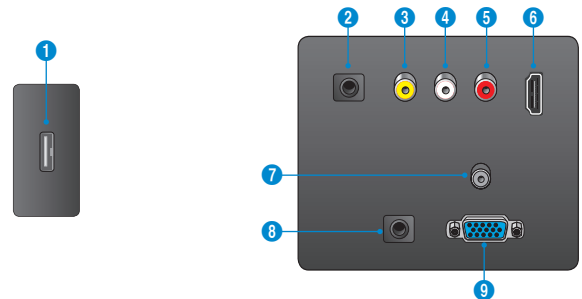| ①	②	③	④	⑤	⑥
35.9"	21.4"	40"	23"	3.7"	7.6"

Connectivity

HG32NB460GF

1. USB
2. HDMI
3. Ant In/Cable
4. Right Audio
5. Left Audio
6. Component/AV In
7. Video In
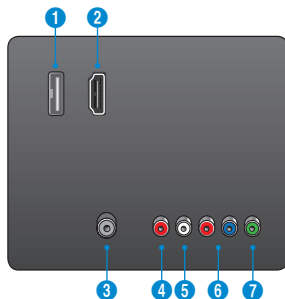
HG40NC460KF

1. USB
2. Ex-Link
3. Video In
4. Left Audio
5. Right Audio
6. HDMI
7. ANT In
8. PC/DVI Audio In
9. PC In

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SAMSUNG 460 SERIES HOSPITALITY TVs KEY SPECIFICATIONS For complete product specifications, visit samsung.com/hospitality

	Model Number	HG32NB460GF	HG40NC460KF
Display	Backlight	Direct-lit LED	Direct-lit LED
	Screen Size (Diagonal)	32"	40"
	HD/FHD	HD	HD
	Resolution	1366 x 768	1366 x 768
Video	Picture Engine	HyperReal Engine	HyperReal Engine
	Static Contrast Ratio	1200:1	5000:1
	Response Time	8ms	8ms
	Viewing angle (Horizontal/Vertical)	178/178	178/178
	Brightness	280 cd/m²	350 cd/m²
	Wide Color Enhancer Plus	Yes	Yes
	Film Mode	Yes	Yes
Audio	Dolby	Dolby Digital Plus / Dolby Pulse	Dolby Digital Plus / Dolby Pulse
	DTS Studio Sound / DNSe+	SRS TheaterSound	DTS Studio Sound
	DTS Premium Sound	DTS Premium Sound 5.1	DTS Premium Sound 5.1
	Auto Volume Leveler	Yes	Yes
	Speaker Type	Down Firing + Full Range	Down Firing + Full Range
	Sound Output (RMS)	5W x 2	10W x 2
Features	ConnectShare™ (USB 2.0)	Movie	Movie
	OSD Language	English, Spanish, French	English, Spanish, French
	Digital Clean View	Yes	Yes
	Anynet+ (HDMI-CEC)	Yes	Yes
	Auto Channel Search	Yes	Yes
	Auto Power Off	Yes	Yes
	Caption (Subtitle)	Yes	Yes
	Wake-up Timer	Yes	Yes
	Game Mode	Yes	Yes
	Picture-In-Picture	Yes	Yes
	Sleep Timer	Yes	Yes
Hospitality Features	Hospitality Home Menu	No	Yes
	Samsung LYNK™ REACH	Yes	Yes
	Samsung LYNK™ REACH Server Compatibility	Yes	Yes
	Hospitality Plug&Play (Easy Set-up)	Yes	Yes
	Power on Mode	Yes	Yes
	Logo Display with Time Out Setting (BMP / Movie)	Yes	Yes
	Welcome Message	Yes	Yes
	Music Mode (Input : PC / AV / Component / HDMI)	Yes	Yes
	Music Mode BackLight on/off	Yes	Yes
	Auto Source Mode	Yes	Yes
	Energy Saving Mode (BLU control)	Yes	Yes
	Clock Back Up Supply	Yes	Yes
	Software Clock	Yes	Yes
	Multi Code Remote Control	Yes	Yes
	Screwed Remote Battery Cover	Yes	Yes
	Security Mode	Yes	Yes
	Smoovie Compatibility	Yes	Yes
	Sound bar compatibility	Yes	Yes
	Samsung LYNK™ DRM	Yes	Yes
Input & Output	HDMI (Side/Rear)	0/1	0/1
	USB (Side/Rear)	0/1	1/0
	Composite In (AV) (Side/Rear)	0/1	0/1
	Audio Out (Mini Jack) (Side/Rear)	0/1	0/1
	RF In (Terrestrial/Cable input) (Side/Rear)	0/1	0/1
	RS232C (EX-Link)	0/1	0/1
	RJP Jack (Remote Jack Pack) (Side/Rear)	0/1	0/1
	Component (Y/Pb/Pr) (Side/Rear)	0/1	0/1
	PC/DVI Audio In (Mini Jack) (Side/Rear)	0/0	0/1
	PC In (D-Sub) (Side/Rear)	0/0	0/1
System	DTV Tuner	ATSC / Clear QAM	ATSC / Clear QAM
	Analog Tuner	Yes	Yes
Design	Front Color	Black	Black
	Stand Type	Square	Square
	Swivel (Left/Right)	No	90/90
Dimensions (W x H x D)	Set Size with Stand (mm / inches)	738.4 x 497.7 x 191.7 / 29.07" x 19.59" x 7.55"	911.7 x 584.2 x 193 / 35.9" x 23" x 7.6"
	Set Size without Stand (mm / inches)	738.4 x 444.0 x 93.2 / 29.07" x 17.48" x 3.7"	911.7 x 543.6 x 7.6 / 35.9" x 21.4" x 3.7"
Carton Dimensions	(H x W x L) (mm / inches)	919.0 x 514 x 143 / 36.2" x 20.2" x 5.6"	1066.8 x 597 x 139.7 / 42" x 23.5" x 5.5"
Weight	Set Weight with Stand (kg / lbs.)	6.0 / 13.23	7.6 / 15.43
	Set Weight without Stand (kg / lbs.)	5.4 / 1.91	7.5 / 16.53
	Package Weight (kg / lbs.)	8.6 / 14	9.5 / 20.94
VESA Mounting	Dimensions (mm)	200 x 200	200 x 200
	Screw Size	M8	M8
Power	Power Supply (V)	AC110-120V 50/60Hz	AC110-120V 60Hz
	Multi Voltage	AC110-220V	AC110-220V
UPC	UPC	8806085759640	8806086241366
Accessory	Remote Controller Model	TM1240	TM1240
	Battery (for Remote Control)	Yes	Yes
	Mini Wall Mount Support	No	Yes
	Vesa Wall Mount Support	Yes	Yes
	Power Cable (5 foot)	Yes	Yes
	Quick Install Guide	Yes	Yes

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For complete product information and accessories, visit samsung.com/business or samsung.com/hospitality

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Samsung Electronics has been named 2013 ENERGY STAR Partner of the Year in the product manufacturing category by the U.S. Environmental Protection Agency (EPA).

Samsung LYNK™ REACH

Convenient guest room content management solution for hospitality providers.

Hotel Information | Guest Services | Attractions | Program Guide

Control content and lower operating costs, all from one centralized location.

Digital TV (DTV) displays are essential to the hotel or resort guest's experience. But while they're essential, they're also typically a source of high maintenance. For instance, manually updating each TV throughout the property consumes valuable labor and operational costs. A manual process also requires additional equipment and maintenance, contributing to continually rising costs associated with DTVs on properties.

Samsung offers a time- and money-saving alternative. LYNK™ Remote Enhanced Active Control for Hospitality (REACH) is a software and hardware solution for better management and maintenance of room display content. The solution comprises two integrated hospitality options that can be tailored to meet individual property requirements:

- **LYNK REACH:** REACH Server and the remote controller enables the updating and adjusting of DTVs over radio frequency (RF) signals. It incorporates LYNK REACH, a software solution designed for ease of use.

Control content on hundreds of DTVs at once.

Eliminate room-by-room visits to each guest room by using a single-location remote solution.

Offer ease of access.

Intuitive user interfaces provide fast access to content for guests and near-real time updating for hospitality managers.

Add a residential TV experience.

Bring a residential TV navigation experience to the guest room with the Interactive Program Guide (IPG).

Deliver information to in-room guests rapidly.

Deliver information automatically with a headline-style scrolling ticker.

Optimize TCO.

Integrated solution uses existing infrastructure assets, lowers labor and operating costs and eliminates the need for set-top boxes and other components.

CONTROL CONTENT ON HUNDREDS OF DTVs AT ONCE.

Manage multiple TVs simultaneously from a central location with REACH Server.

The typical way properties upgrade TV firmware and deliver updates and channel mapping changes is by deploying personnel throughout the property. Staff use cloned USB devices to update each display, one room at a time.

It's a slow, time-consuming, expensive process. And with the Samsung LYNK REACH system, it's completely unnecessary.

With LYNK REACH, property managers and technicians can manage multiple TVs from one central location. The REACH Server delivers updated firmware and other settings to TVs through RF signals. Updates are simple and simultaneous. There's no need to go from room to room.

Remote upgrades via REACH Server means there are no more service limitations and interruptions, and your staff has more time to focus on other ways of improving the guest experience.
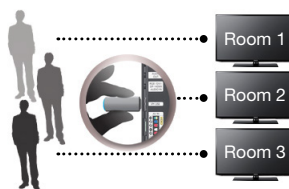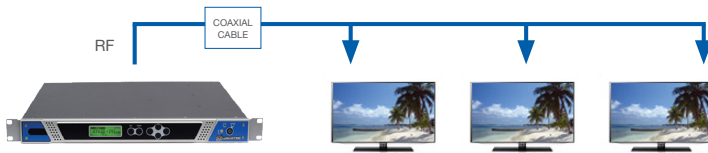
USB CLONING   REACH SERVER
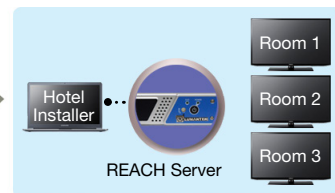
Replacing a room-by-room updating model with REACH Server delivers time and cost efficiencies.

Multiple hospitality TVs can be updated over an entire installation. This includes delivering TV firmware, channel map and settings.

OFFER EASE OF ACCESS.

Access content more quickly through intuitive interfaces designed for ease of use.

LYNK REACH comes equipped with familiar, intuitive user interfaces (UIs) for hotel staffers and guests. The REACH solution contains simplified settings that resemble a desktop folder system.

Enhanced visual contrast between the list of settings and the working window helps employees find the setting or element to be modified without delay. The UI also provides a live preview of the element to confirm the setting has been adjusted as desired.

Perform upgrades and edit display interfaces remotely from one centralized location.

Property managers can customize and manage interface and content remotely with LYNK REACH and REACH Server.

ADD A RESIDENTIAL TV EXPERIENCE.

The Interactive Program Guide (IPG) is easy, simple and brings a familiar TV-watching experience to your guests.

The Samsung REACH solution provides guests with an interactive program guide that helps bring a residential experience into the guest room.

IPG data is provided through a subscription service by your content provider or system integrator. The REACH device can then pull the necessary metadata from multiple sources in multiple formats.

Through the REACH solution, the IPG provides guests with:

• **Picture in Picture:** Watch one channel as the main image, and a second channel as an inset image.

• **Program Information:** Detail about the selected program can be displayed showing time, duration and summary. Even more detail about the selected program can be displayed with the Info button.

• **Channel Grid:** Scheduled programs are displayed in a grid-like format, to make viewing much simpler. Guests can quickly scan and see all their program viewing options at a glance. And to add even more convenience, the program schedule is viewable up to 7 days at a time.

Interactive Program Guide

DELIVER INFORMATION TO IN-ROOM GUESTS RAPIDLY.

Deliver information automatically with the screen ticker feature.

The LYNK REACH ticker feature gives properties an additional way to deliver messages and other information. This feature provides a crawl of data that's of special interest to guests, such as local weather or event information. In addition, property managers can create and update targeted promotional content or marketing messages that display in the ticker's scrolling text.

For example, a resort or hotel known for its cold-weather amenities might display slope conditions, available spa times and discount ticket packages. A hotel with on-site restaurants can advertise new menu options, or special local promotions such as food or event discounts that are available to guests. These messages can be scheduled to run at certain intervals and times to optimize guest attention and response.

Property owners can also increase revenue by providing paid ticker advertisements, along with information about neighborhood shopping, restaurants and attractions.

Display an interface that seamlessly matches your property's brand.

LYNK REACH makes it simple to customize screens and implement designs to match brand images, locations, amenities and audiences.

When design and content are applied, menus are displayed transparently on an editable background image that can communicate your brand. The UI can then include welcome messages to specific guests, messages to groups, event information occurring on or off the property, nightly restaurant specials and virtually any other information you'd like to deliver.

Screen Ticker Feature
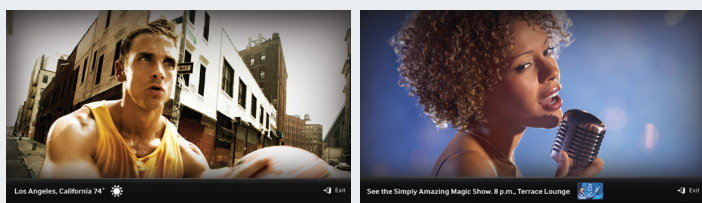
Tickers can be set to display information and promotions at regular intervals.

Main / Front UI
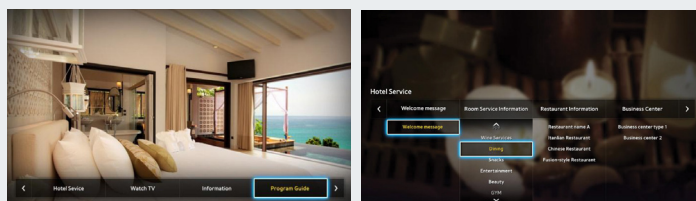
Guests can locate specific services and information using familiar scrolling menus that float transparently over editable background images that reflect your brand.

OPTIMIZE TCO.

Optimize TCO by reducing the need for extra equipment and staff hours.

Many hospitality businesses already receive conventional analog and digital TV programming using RF signals. For those establishments that have RF infrastructures currently in place, LYNK REACH is an ideal way to provide TV content more efficiently. With LYNK REACH, these establishments can access advanced features like UI branding and screen ticker, without the expense of purchasing additional set-top boxes (STBs) or installing IP networks.

The flexibility and ease that the REACH system offers enables you to provide guests with the convenience of real-time updates.

For example, if an on-site restaurant runs out of a special dish, a property manager can delete or change promotional messages relating to the menu item.

With easy updating, real-time communications messages, and seamless branding, the Samsung LYNK REACH system lets you communicate with guests at a level you never could before.
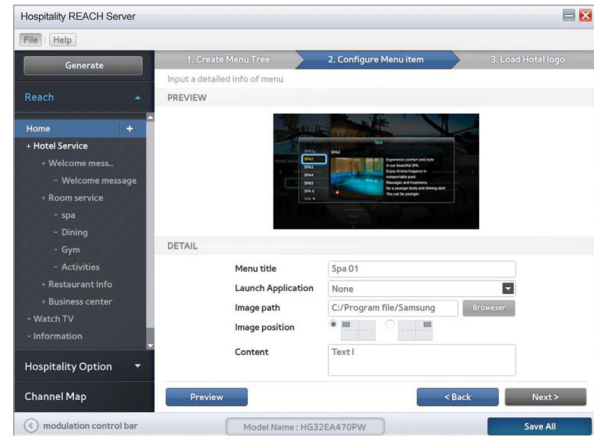
The intuitive REACH UI makes it simple for staff to edit and update specific elements of the in-room guest display.

SAMSUNG LYNK REACH AND REACH SERVER KEY SPECIFICATIONS For complete product specifications, visit samsung.com/hospitality

	Feature	Detail
System	Embedded PC Board	Intel® ATOM® D510 (dual core), 1GB DDR, 40 GB SSD HDD
	OS	Embedded Microsoft® Windows XP®
	Remote Control	1,000/100 Base-T
	Front Panel	GLCD, 6-keys control
RF	Frequency	50 – 970 MHz
	Frequency Accuracy	± 5 ppm (approx. ± 2 ppm)
	Output Power	29 – 56 dBmV
	Level Accuracy	± 1 dB
	Spurious	< -55 dBc (approx. < -60 dBc)
	Phase Noise	< -95 dBc at 10 kHz (approx. < -98 dBc)
	Return Loss	> 15 dB
	Group Delay	< 20 ns
	Output Impedance	75 ohm
Modulation: Open Cable (North America)	Standard	ITU-T J.83 annex A/C
	Constellation	64 QAM, 256 QAM
	Symbol Rate	5.057 MS/s or 5.38 MS/s
	MER	> 36 dB (without EQ)
	Channel BW	6 MHz
	Roll Off	0.13 or 0.18
Modulation: DVB-C (Europe)	Standard	< -55 dBc (approx. < -60 dBc)
	Constellation	16 QAM, 32 QAM , 64 QAM, 128 QAM, 256 QAM
	Symbol Rate	-10 MS/s
	MER	> 36 dB (without EQ)
	Channel BW	5, 6, 7, 8 MHz
	Roll Off	0.15

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