Touchstone® WBM760C

DOCSIS® 3.0 Japanese Cable Modem

Configuration

- DOCSIS 3.0 compliant
- Channel Bonding (4 DS x 4 US)
- 10/100/1000 Base-T Ethernet interface
- IPv4 or IPv6 addressing modes for DOCSIS CM layer
- Attractive space-saving package with multiple mounting options
- Simplified interoperability through PacketACE™ configuration file editor
- Two-way high speed IP services that enable higher bandwidth for interactive services

Applications

The Touchstone® Wideband Modem WBM760C is a DOCSIS 3.0 compliant device that enables advanced high speed multi-media and symmetrical services through increased upstream and downstream bandwidths. With DOCSIS 3.0 channel bonding, cable operators can offer data services at speeds greater than 160 Mbps to their subscribers to compete against VDSL and Fiber to the home threats, as well as provide a platform to deliver competitive high capacity commercial services to businesses. The WBM760C is backwards compatible with legacy DOCSIS 1.0, 1.1, and 2.0 cable equipment and can be deployed without service interruption.

Performance

- Flexible NxM downstream/upstream channel bonding with superior throughput
- Meets Japanese cable plant standards
- 1 GHz downstream RF tuner with up to 100 MHz capture bandwidth
- Multi-colored LEDs for rapid troubleshooting during installation or by phone with customer service
- Downstream scanning override via web GUI for rapid installation
- Meet or exceed industry radiated immunity and surge requirements
- Easy to install and operate

Specifications

Physical

Operating Temperature °C (°F)	+5 to +40 (+41 to +104)
Operating Relative Humidity (Min-Max)	5-95%(Non condensing)
Storage Temperature °C (°F)	-40 to +70 (-40 to +158)
Dimensions (HxWxD) in. (cm)	7.1 x 1.7 x 5.9 (18.0 x 4.3 x 15.0) - excluding F-connector
Weight lbs (kg)	1.0 (0.46)
Diagnostic LEDs	Power, DS, US, Online, Link,

Interfaces

RF Interface	External 'F' type connector
Ethernet Interfaces	10/100/1000 Base-T Ethernet RJ-45
Input Voltage (nominal)	115-240 VAC 50/60 Hz
Power Consumption (W)	7 (idle), 9 (max.)

RF Downstream

Frequency Range (MHz)	108 to1002
Bonded Channels	up to 4
Capture Bandwidth (MHz)	96 (typical)
Carrier Bandwidth (MHz)	6
Modulation (QAM)	64 or 256
Data Rate (Mbps)	up to 160
RF Input Sensitivity Level (dBmV)	-15 to +15
Total Input Power (40 to1002 MHz, dBmV Max.)	33

RF Upstream

Frequency Range (MHz)		5 to 65
Bonded Channels		up to 4
Modulation		QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps) (Max.)		up to 122
RF Output Level (dBmV – one channel)		
	A-TDMA	+17 to 57 dBmV (32 QAM, 64 QAM); +17 to 58 dBmV (8 QAM, 16 QAM); +17 to 61 dBmV (QPSK)
		Note: A-TDMA max output power reduced 3dB when transmitting two channels and 6dB when transmitting 3 or 4 channels.
	S-CDMA	+17 to +56 dBmV (all modulations)
		Note: S-CDMA max output reduced 3dB when transmitting 2 or more channels.
Automatic Level Adjust		Yes
Frequency Stability (kHz)		±5
Output Impedance (Ohms)		75

Standards

DOCSIS 3.0
UL® 60950
CE, CB
VCCI
PSE
RoHS, WEEE
IEEE 802.3, IEEE 802.3ab

Ordering Information

Part Number	Description
780150	Touchstone WBM760C/JA DOCSIS 3.0 compliant data-only cable modem with integrated 100 VAC, 50/60 Hz power supply with 6 foot JIS 8303 (Class II) power cord. Includes Quick Install Guide.

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