



## Touchstone® WBM760A

### DOCSIS® 3.0 Cable Modem



#### Configuration

- DOCSIS 3.0 compliant
- Channel Bonding (4 DS x 4 US)
- IPv4 or IPv6 addressing modes for DOCSIS CM layer
- 10/100/1000 Base-T Ethernet interface
- USB 2.0 interface
- 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 WBM760A 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 WBM760A 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
- 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

# ARRIS Touchstone DOCSIS 3.0 Cable Modem WBM760A

## Specifications

### Physical

Operating Temperature °F (°C)	+32 to +122 (0 to +50)
Operating Relative Humidity (Min-Max)	5-95%(Non condensing)
Storage Temperature °F (°C)	-40 to +158 (-40 to +70)
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 (bridged)	10/100/1000 Base-T Ethernet RJ-45,
USB Interface (bridged)	High Speed (480Mbps) USB 2.0 ( <i>Note: USB not included on WBM760A/KE</i> )
Input Voltage (nominal)	115-240 VAC 50/60 Hz
Power Consumption (W)	7 (idle), 9 (max.)

### RF Downstream

Frequency Range (MHz)	108 to 1002
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 to 1002 MHz, dBmV Max.)	33

### RF Upstream

Frequency Range (MHz)	5 to 42
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) <i>Note: A-TDMA max output power reduced 3dB when transmitting two channels and 6dB when transmitting 3 or 4 channels.</i>
S-CDMA	+17 to +56 dBmV (all modulations) <i>Note: S-CDMA max output reduced 3dB when transmitting 2 or more channels.</i>
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

### Standards

DOCSIS 3.0	eK/MIC
UL® 60950	RoHS, WEEE
FCC Part 15 Class B	IEEE 802.3, IEEE 802.3ab
CE, CB	WHQL, USB-IF

### Ordering Information

Part Number	Description
780145	Touchstone WBM760A/NA DOCSIS 3.0 complaint data-only cable modem with integrated 115-240 VAC, 50/60 HZ power supply with 6 foot NEMA 1-15 power cord. Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with user's guide and USB drivers
780142	Touchstone WBM760A/CE DOCSIS 3.0 complaint data-only cable modem with integrated 115-240 VAC, 50/60 Hz power supply with 6 foot CEE 7/16 Euro power cord. Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with user's guide and USB drivers
780144	Touchstone WBM760A/KE DOCSIS 3.0 compliant data-only cable modem with integrated 240 VAC, 50/60 HZ power supply with 6 foot KSC8305 Korean power cord. Includes Quick Install Guide, Ethernet Cable.