



ARRIS Media Gateway

DOCSIS® 3.0 MG2402G/CT Series

Specifications

Physical

Operating Temperature °F (°C)	41 to 104 (5 to 40)
Operating Relative Humidity (Min-Max)	5-85% (Non condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Black
Dimensions (H x W x D) mm.	295 x 10 x 100
Weight lbs	3.1 lbs - No battery included
Battery Back-up 8-Hour Option	Lithium-ion 4.4AH Capacity
Battery Weight lbs	2.0 lbs (0.91 kg)
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) Note: Storage above 77° F (25° C) will significantly reduce life of the battery and is not recommended.
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Hard Disk Drive	2.5" up to 2 TB
Diagnostic LEDs	Power, US/DS, Online, Ethernet, WiFi, Tel 1, Tel 2, Battery, Record

Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")
USB Interface	2 x USB 2.0 Powered Host Port
Conditional Access	Optional Separable Security with Multi-Stream CableCARD interface
Power Supply	External 100-120 VAC 60 Hz
Short Range RF	Zigbee® Pro and RF4CE
External Storage	eSATA, 1 x SD Card Slot

RF Downstream

Tuner Configuration	Single 1GHz wide Full Bandwidth Capture front end
Demodulation	Up to 16 or 24 carriers usable interchangeably for DOCSIS or Digital Video
DOCSIS 3.0 Bonding	Up to 16 or 24 channels
Frequency Range (MHz)	108-1002
Carrier Bandwidth (MHz)	6
Modulation	64 and 256 QAM
Data Rate (Mbps Max.)	Up to 1 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15

Continue to next page.

Technical Specification

ARRIS Technical Specification

Specifications Continued

RF Upstream

Transmitters	8 DOCSIS upstream carriers
DOCSIS Bonding	Up to 8 channels
Frequency Range (MHz)	5 to 42
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps Max.)	up to 320
RF Output Level (dBmV)	ATDMA: +8 to 54 (32 QAM, 64 QAM) +8 to 55 (8 QAM, 16 QAM) +8 to 58 (QPSK)
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

MOCA 2.0

Frequency (MHz)	1150 – 1500
Bandwidth (MHz)	50
RF Output Level (dBm)	+4 (typical)

802.11n Wireless (optional – see ordering codes)

Operating band(s)	Dual band (2.4 GHz + 5 GHz) concurrent
Antennas	Customized 3x3:3 MIMO with Beam Forming

Telephony

Supervisory Voltage	48 Vdc nominal
Maximum Loop Length to CPE	1000 ft (305M) of 26 AWG (0.4 mm) wire
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source, NA templates ONLY)
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	Yes
Programmable Interface for Worldwide Applications	Yes (supports multiple country templates)
Cordless Telephony support	DECT 6.0 and CAT-iQ2.0

Applications Performance

Host Processor	1.2 GHz Intel Atom Processor
Memory – DRAM	2 GB DDR3
Memory – Flash	512 MB NAND
Transcoding	transcoder supporting up to 4 x real time HD stream to ½ HD, SD or sub-SD MPEG4 pt. 10 (AVC)

Battery back-up times are typical and can be influenced by the age of the battery, the charging state, storage conditions and operating temperature as well as factors such as data activity and length of active telephone calls. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. Actual operating range may vary according to environmental conditions at the time of use.

Continue to next page.

ARRIS Technical Specification

Specifications Continued

Standards

DOCSIS 3.0	IEEE 802.3, IEEE 802.3ab, IEEE 802.3x
PacketCable™ 2.0	IEEE 802.1p, IEEE 802.1Q
DTCP-IP	IEEE Std. 802.11b, 1999 Edition
MoCA® 2.0	IEEE Std. 802.11g, 2002 Edition
USB 2.0	IEEE Std. 802.11n
eSATA 2.0	UL® 60950
Codec: G.711, 64 kbps, μ and A-law encoded speech	FCC Part 15 Class B
T.38 Fax Relay	

Ordering Information

Part Number Description

800954	MTA; MG2402G/CT-0, Cablecard WIRELESS EMTA, DOCSIS 3.0, No Battery, no HDD, 2-LINE GATEWAY, 24x8, 802.11N DBC, DECT, MoCA 2.0 Zigbee, North American External Power Supply
--------	--

Accessories

789699	Replacement -Cell, 4.4 Ah, Li-Ion Battery Pack
793100	Point of entry MoCA Filter (bulk packaging: order in multiples of 50)

Specifications are subject to change without notice.

©ARRIS Enterprises, Inc. 2013 All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, Inc. ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are all trademarks of ARRIS Enterprises, Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. Statement to be used in product guides and marketing collateral: The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.



www.arrisi.com