ARRIS D5

UNIVERSAL EDGE QAM

The ARRIS D5 Universal Edge QAM (UEQ) is an IP edge network device that enables delivery of a wide variety of multimedia content in a redundant, modular and cost-effective package.

- QAM Density – up to 72 QAM channels (48 Annex A/C)
- Video stream density with a peak capacity of 1,488 simultaneous video streams
- QAM Sharing: simultaneous processing of VOD, SDV, Linear Digital Broadcast, and DOCSIS 3.0 M-CMTS downstream using the same software image
- Redundancy: WAN, Power, Fan, QAM GbE, & Transport Stream
- Multiple GUI, SNMP and CLI Management Options
- Linear Broadcast Digital Programming
- xVOD (Table and ERM)
- M-CMTS Edge Device (DEPI Static and Control Plane)
- SDV (RPC and RTSP)
- Radius and TACACS+ Authentication support
- CA: Privacy Mode, DVS-042, DVB Simulcrypt, CSA & OpenCAS
- Bulk Configuration and Operational Management Tool

SPECIFICATIONS

ENVIRONMENTAL	
Operating Temperature, °F (°C)	32 to 122 (0 to 50) Ambient
Storage Temperature, °F (°C)	-40 to 158 (-40 to 70)
Relative Humidity	up to 90% (non-condensing)
ELECTRICAL/MECHANICAL	
Input Voltage AC	100-240VAC, 50-60 Hz
Input Voltage DC	-42 to -56 VDC
Maximum Power Consumption (fully loaded)	< 405 Watts
Dimensions (W x H x D), in (cm)	19 x 3.5 x 24 (48 x 8.9 x 61)
Full-fill Weight, lbs (kg)	50 (22.7)
WAN MODULE	
Standard Gigabit Ethernet input interfaces	4
All Gigabit Ethernet Interfaces can be active Simultaneously, Optical SFP orf 1000 BaseT option (IEEE802.3z or IEEE802.3ab) Gigabit Ethernet Redundancy	2X (1 + 1), 2 + 1, 3 + 1
IP Unicast and Multicast (IGMPv2/3) UDP encapsulated packets, Multiple/Flexible UDP Port mapping options IGMPv2/3 with Source Specific Multicast	1 to 7
QAM MODULE	
External F-type female connectors, 75 ohm (ISO-169-24) 6 block-converted adjacent channels per RF output port 2 RF output ports per module ITU-T j.83 Annex A, B, C Support Center-tuned Frequency Range	57-867 MHz
Minimum Frequency Step	10 Hz
Modulation Type	64 and 256 QAM
Single Carrier Power Per RF	52 to 60 dBmV
Dual Carrier Power per RF Output	48 to 56 dBmV
Quad Carrier Power per RF Output	44 to 55 dBmV
Hex Carrier Power per RF Output Annex B only	42 to 53 dBmV

Power Level Step Size	0.2 dB
Output Return Loss (active channel 88-750 MHz)	> 14 dB
Output Return Loss (active channel 750-870 MHz)	> 13 dB
Output Return Loss (inactive channel)	> 12 dB
MER (equalized)	> 43 dB
MER (unequalized) Single, Dual, Quad, Hex carriers pe RF output port, RF block muting	> 36 dB
MPEG PROCESSING	
Receive up to 1,488 MPEG2 SPTS input streams (RFC768) Generate up to 72 MPTS output streams (48±250 msec for Annex A/C) MPTS and SPTS pass-thru PID filtering/remapping when required (automatic handling) Stream Replication of multicast streams, Support for up to 63 SPTS per QAM channel Input jitter Re-multiplexing/routing of any input stream to any output PCR de-jittering and re-stamping of input streams PSI extraction, automation generation and insertion as required Program and Elementary Stream-level Encryption DVB-SI table handling from external SI generators	
CONTROL INTERFACES	
Two independent 10/100BaseTX – for CAS and NMS RS-232 Serial Port Debug console connection protocols In-band or out-of-band management (Radius, TACACS+) Ethernet test/loop port for external analysis of any MPTS HTML-based Nodal Management System SNMP, XML, http, CLI (Telnet/ssh, RS232), TFTP	
GENERAL	
Open-standards Switched Digital Video support (SDV) DOCSIS 3.0 M-CMTS Edge QAM support (DI, DRFI, DEPI) VOD Privacy Mode Encryption support DVB Simucrypt and Open Cas support Field-upgradeable software download support (compact flash) Hot-swappable, field-upgradeable 8-slot modular design Redundancy Field Upgradeable Power, QAM, Gigabit Ethernet, IGMPv3, Fans	