

ARRIS TXPlus

BSR 64000 DECOUPLED DOWNSTREAM MODULE

The TXPlus is a part of the family of evolutionary products which make up the BSR 64000. Combined with the SRM10G, these modules represent a 300% increase in BSR 64000 DOCSIS QAM density over the prior capacity maximum, all in a simple I-CMTS architecture. TXPlus is supported with BSR Release 7.1 software or later but is backwards compatible as a TX32 (32 QAM in either Annex A or B) with earlier versions of software. The combination of the SRM10G with TXPlus DOCSIS 3.0 downstream and RX48 upstream modules offers industryleading capacity in an integrated CMTS.



- Fully hot-swappable N:1 redundancy
- Up to 64 Annex B or 48 Annex A DOCSIS channels across 8 RF Ports
- High port density: up to 6 QAM channels (Annex A) or 8 QAM channels (Annex B) per port
- Enables support of up to 512 DOCSIS downstreams per BSR 64000, or 384 DOCSIS downstreams with full RF redundancy.
- Easily doubles downstream capacity per serving group without RF rewiring
- DOCSIS 3.0 Compliant
- Downstream QAM licensing to manage capital expense to meet current expansion challenges

SPECIFICATIONS

FLEXIBLE CONFIGURATIONS	
Eight downstream RF ports	
Integrated eight-channel QAM modulation and RF block-upconversion per RF port	
Up to eight adjacent DOCSIS downstream channels per RF port	
Maximum of 64 downstream QAMs per module	
Configurable DOCSIS, J-DOCSIS and EuroDOCSIS operation	
Deployable with existing SRM, HSM, and 2:8 DOCSIS/EuroDOCSIS modules for use up to 32 downstream QAM channels. Requires SRM10G to use more than 32 downstreams QAM channels per module.	
STANDARDS-BASED INTEROPERABILITY	
DOCSIS 1.x-, 2.0-, and 3.0-compliant	
Compatible with DOCSIS, J-DOCSIS, and EuroDOCSIS specifications	
Based on Broadcom BCM3215 Octal Downstream DOCSIS 3.0 Core MAC Chip	
MANAGEMENT	
Compatible with all relevant BSR 64000 CLI commands	
Supports all relevant DOCSIS 1.x, 2.0, and 3.0 MIBs	
Enables downstream per-flow queuing	
RF	
Downstream Frequency Range	
DOCSIS	88 to 1 GHz
EuroDOCSIS	108 to 1 GHz
Downstream Modulation	64 and 256 QAM
Downstream Per-Channel Bit Rates	
DOCSIS	27 to 38Mbps
EuroDOCSIS	36 to 56Mbps
Output Level	44 to 60 dBmV
Bandwidth	
DOCSIS	6 MHz
EuroDOCSIS	≤ 8 MHz
Typical Modulation Error Rate	47
Output Load Impedance	75 Ω
PHYSICAL	
Occupies a single slot in the BSR 64000 chassis	
Hot-swappable with redundant rear I/O module	
F-type connector on rear I/O module for RF	
LEDs	Fail, Status, Alarm, Link, Fault
Dimensions	38.1 cm x 38.1 cm x 0.3 cm
Weight	6.8 lb

ENVIRONMENTAL	
Operating Temperature	0°C to 40°C (32 °F to 104 °F)
Storage Temperature	(-)20 °C to 60 °C (-4 °F to 140 °F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
REGULATORY COMPLIANCE	
Safety UL60950-1:2003 1st Ed. CSA C22.2 No. 60950-1-03 1st Ed. IEC 60950-1:2001, 1st Ed. IEC 60950-1:2001, 1st Ed. EN 60950-1:2002, 1st Ed. 2006/95/EC	
Electromagnetic Emissions EN 300386 V 1.3.1: 2005, Telecom Centers IEC CISPR 22:2003 Class A CFR 47 Part 15, Subpart B, Class A VCCI V3: 2005, Class A AS/NZS CISPR 22:2002 Class A RRL Notice 2006-67, Class A 2004/108/EC	
Electromagnetic Immunity EN 300386 V 1.3.1: 2005, Telecom RRL Notice 2005-130	
Environmental RoHS, WEEE 2005/95/EC	
Physical ≤ 8 MHz Designed for NEBS GR-63-CORE Level 3 Requirements ETS 300 019 Part 1-1 Class 1.1, Part 1-2 Class 2.2, Part 1-3 Class 3.1	
POWER	
Unit Power	155 W (typical)
SOFTWARE	
Minimum Software Revision	BSR 64000 Software Release 7.1