

Touchstone[®] DG3270 Cable Gateway

32x8 DOCSIS[®] 3.0 Gateway with 802.11ac Wi-Fi & MoCA[®]2.0

FEATURES

- 32x8 Channel Bonding
- >1Gbps Downstream Throughput
- Full Capture Bandwidth Tuner with Spectrum Analyzer
- DOCSIS[®] 3.0 compliant design
- Multi Processor Technology with a 1.2GHz Intel Atom Core Application Processor
- Internal 32 bit Data architecture for maximum speeds
- 4 port Gigabit Ethernet Wireless Router
- 3x3 Integrated Dual Band Concurrent 2.4GHz 802.11n and 5GHz 802.11ac High Power Radios
- MoCA 2.0 for in Home Video and Data distribution over Coax
- USB 2.0 Host Port
- Internal Power Supply for Highest Reliability



PRODUCT OVERVIEW

Operators are wanting to push the limits on DOCSIS 3.0 support speeds beyond 1Gbps in today's competitive world. The DG3270 delivers on this performance combined with MoCA2.0 and its superior high power wide coverage 802.11ac Dual Band Concurrent wireless radios. This feature-packed unit is intended to serve as the hub of the subscriber's network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customer's premises.

Residential gateway support has always been a concern of the operator. The DG3270 distinguishes itself with capabilities to minimize these support needs. Multiple provisioning methods (SNMP, Configuration File, Remote WebGUI access, TFTP, and TR-069/181) allow custom designed setups to be applied to monitor the end user more efficiently. Multiple remote access levels (User and Technician) also allow more ease and flexibility for manual configuration and control.

The DG3270 will help lead the future to advanced home and small office services.



Interface Speeds

| | |
|-------------------|----------|
| Wi-Fi | 1750Mbps |
| DOCSIS Downstream | 1280Mbps |
| MoCA 2.0 | 700Mbps |
| USB 2.0 | 480Mbps |
| DOCSIS Upstream | 240Mbps |

SPECIFICATIONS

Physical

| | |
|-----------------------|--|
| Bonded Channels | Up to 8 |
| Frequency Range | 5MHz to 42MHz or 5MHz to 85MHz depending on model |
| Data Rate (Mbps Max.) | Up to 240 |
| RF Output Level | +57 dBmV (64 QAM, single upstream) +54dBmv (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream) |

SPECIFICATIONS

Interfaces

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|---------------------------|---|
| RF Interface | External 'F' type connector |
| Data Interfaces (bridged) | 4 x 10/100/1000 Base-T Ethernet (RJ-45 connector) |
| USB Interface | USB 2.0 Powered Host Port |
| MoCA | MoCA 2.0 |
| Input Voltage (nominal) | 115/220VAC, 50/60 Hz |

SPECIFICATIONS

RF Downstream

| | |
|----------------------------|-----------------------------|
| Bonded Channels | Up to 32 |
| Tuner Configuration | Full capture tuning range |
| Frequency Range (MHz) | 108MHz - 1002MHz DOCSIS |
| Data Rate (Mbps Max.) | Up to 1280 |
| RF Input Sensitivity Level | -15dBmV to +15dBmV (DOCSIS) |

RF Upstream

| | |
|-----------------------|--|
| Bonded Channels | Up to 8 |
| Frequency Range | 5MHz to 42MHz or 5MHz to 85MHz depending on model |
| Data Rate (Mbps Max.) | Up to 240 |
| RF Output Level | +57 dBmV (64 QAM, single upstream) +54dBmV (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream) |

SPECIFICATIONS

Wireless

| | |
|-----------------------------------|--|
| Frequency Range | 2.4GHz and 5GHz |
| Transmit Power (from any antenna) | +32dBm (MCS0), +30dbm (MCS7) +32dBm (MCS0), +30dbm (MCS9) |
| Spatial Streams | 3 |
| Receive Levels | 2.4GHz - <-90dBm 802.11n (MCS0) , <-69dBm 802.11n (MCS7), HT20 5.0GHz - <90dBm 802.11ac (MCS0) , <-60dBm 802.11ac (MCS9), VHT80 |
| Antennas | 3 transmit, and 3 receive per band |

Note: WiFi power shown is the maximum supported by the product and subject to limitations in the country deployed.

MoCA

| | |
|---------------------------|----------------------------------|
| Frequency Range | 1150MHz –1500MHz |
| Network Channel Bandwidth | 100MHz |
| Max Transmit Power | + 9 dBm max (adjustable) |
| Max PhyRate | 700 Mbps |
| Application Data Rate | 400+ Mbps bidirectional combined |

ORDERING INFORMATION

| Model | Description |
|--------|-----------------------------|
| 804116 | DG3270/NA-0, 42MHz Upstream |

CUSTOMER CARE

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656