



## Quarra PTP Ethernet Switch

RAVENNA、AES67に対応した、高精度時間同期プロトコル IEEE 1588v2 (PTPv2) 機能搭載イーサネットスイッチ

### QUARRA 1G PTP Ethernet Switch (10port , 1/2 Rack)



### QUARRA 1G PTP Rackmount Ethernet Switch (10port , 1U Rack)



### Quarra 10G PTP Rackmount Ethernet Switch (28port , 1U Rack)



## 製品特徴

- RAVENNA、AES67対応
- ナノ秒単位の正確な高精度時間同期プロトコル IEEE 1588v2 (PTPv2)対応
- GPSを利用し、より高精度な同期信号を生成(オプション)
- Synchronous(L1) Ethernet (同期イーサネット)の正確なクロック同期にDSPLL®技術を使用(オプション)
- Web GUI または、コマンドラインにより、すばやく簡単に設定可能
- QoS、IGMP v2/3、VLAN機能搭載
- SFP+対応 (10portモデル 2.5G / 28portモデル 10G)

この製品に関するお問い合わせ先

**digicom**

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## SPECIFICATIONS

### Carrier Ethernet

Layer-2 IEEE 1588v2 : Precision Time Protocol (PTP) timing and synchronization  
 IEEE 802.1ad : Provider bridging (VLAN Q-in-Q) switch - 8 MACs, 4K VLANs  
 Per queue MEF E-LINE or per port MEF E-LAN, E-TREE Service Points  
 - Per port per queue Dual Leaky Bucket Service Policers with PCP or DSCP remarking per Service port  
 - Static tagging options per Service Point  
 OAM Hardware for generating CCM messages, CCM checking is done by software  
 - Software of OAM and protection switching

### Quality of Service

EPS and ERPS Protection Switching  
 TCAM-based VLAN classification and translation with pattern matching against Layer-2 through Layer-4 information  
 Up to 256 QoS and VLAN TCAM entries  
 Eight QoS queues per port with strict or deficit weighted round-robin scheduling (DWRR)  
 DSCP translation, both ingress and/or egress  
 DSCP remarking based on QoS and VLAN TCAM entries  
 VLAN (PCP, DEI and VID) translation, both ingress and egress  
 Per-queue, per-port policing and shaping, programmable in steps of 100 kbps  
 Per-flow policing through TCAM-based pattern matching, Up to 256 policers  
 Full-duplex flow control (IEEE 802.3x) and half-duplex backpressure, symmetric and asymmetric

### Layer 2 Switch

Port mirroring  
 Port-based access control  
 IEEE 802.3ad : Link aggregation  
 IEEE 802.1x : Network Access Control  
 IEEE 802.1w : Rapid Spanning Tree Protocol  
 IEEE 802.1s : Multiple Spanning Tree Protocol  
 Simple Network Management Protocol (SNMP)  
 Independent and shared VLAN learning  
 256 VLAN egress tagging TCAM entries  
 Link aggregation traffic distribution is programmable and based on Layer-2 through Layer-4 information  
 Basic Switching - Forwarding, address learning and address aging  
 VLAN IEEE 802.1Q (4,096 VLAN's) - Push / pop / translate up to two VLAN tags; translation in ingress and / or egress  
 8,192 MAC addresses. Including Generic Attribute Registration Protocol (GARP)  
 Wire-speed hardware-based learning and CPU-based learning configurable per port

### Multicast

8K Layer-2 Multicast group addresses with 64 port masks  
 8K IPv4/IPv6 multicast groups  
 Internet Group Management Protocol v2 & v3  
 Multicast Listener Discovery (MLDv1)  
 Multicast Listener Discovery (MLDv2) with source specific multicast forwarding

## REAR PANEL

QUARRA 1G Compact PTP Ethernet Switch



QUARRA 1G PTP Ethernet Switch



QUARRA 10G PTP Ethernet Switch



### Ordering Information

| Description                                    | Product Number | Description                                                            | Product Number |
|------------------------------------------------|----------------|------------------------------------------------------------------------|----------------|
| QUARRA 1G Compact PTP Ethernet Switch          | 390-280200-00  | QUARRA 10G PTP Ethernet Switch                                         |                |
|                                                |                | Rackmount Switch with Dual Power Supply                                | 390-100001-00  |
| QUARRA 1G Compact PTP Ethernet Switch          |                | SFP Options - See <i>InfinityLink SFP/SFP+/XFP Compatibility Chart</i> |                |
| Desktop Switch with SyncE                      | 390-280300-00  |                                                                        |                |
| QUARRA 1G PTP Ethernet Switch                  |                |                                                                        |                |
| Rackmount switch with Dual Power Supply        | 390-280219-00  |                                                                        |                |
| QUARRA 1G PTP Ethernet Switch                  |                |                                                                        |                |
| Rack mount switch, Dual Power Supply and SyncE | 390-280319-00  |                                                                        |                |



RAVENNA

AES67



SMPTE Standards-based Timing  
 ST 2110-10 System Timing and Definition  
 ST 2059-2 SMPTE Profile for Use of IEEE-1588 Precision Time Protocol

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