

OCEAN

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OCEAN OCE-GETH Gigabit Ethernet acquisition board

For the optimization of mobile networks



4 ports on one board

Full input rate handled

Copper or SX, LX optical links using SFP transceivers

Transport and business-oriented filtering

Truncation

External synchronization

Supports any traffic: A, IuCs, Gr (SIG-TRAN), BICC, Gb, Gn, Gi, Mc (Megaco), Nb, etc.

Specifically designed for the optimization of NGN mobile networks, the OCE-GETH acquisition module offers not only the standard characteristics of Ethernet links data capture, but also 'business oriented' features dedicated to mobile networks requirements.

OCE-GETH is set up in the standard Astellia OCEAN probe exclusively. OCEAN is able to host up to 8 OCE-GETH in the same rack. OCE-GETH acquisition module may be combined to the other Astellia acquisition modules.

OCEAN probe is part of the overall Astellia Network Monitoring solution. The global solution helps operators to the 24/7 evaluation of networks and services behavior:

- QoS and performance analysis
- Radio access network optimization
- Troubleshooting
- Value Added Services.

Typical applications

- NGN mobile network
- Network optimization
- Network supervision
- Troubleshooting
- Non-intrusive monitoring



Technical specifications

Input

Number of ports per board	4
Input performance	Full input rate

SFP Interfaces

Optical Ethernet interface	SX 850 nm multi mode with LC-PC connector LX 1310 nm single mode with LC-PC connector
Copper Ethernet interface	10/100/1000Base-T with RJ45 connector

Interface

PCI	PCI-X 64-bit 66 MHz (3.3 & 5V)
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Time Synchronization

Internal Synchronization	Local oscillator
External Synchronization	On another Astellia acquisition board On standard PPS signal Using NTP or PC clock

Consumption	Less than 20 W
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Dimension	Full length PCI 2.3
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Standard Compliances

EMC	EN 50081-1, EN 50082-2
Ethernet type	IEEE 802.3, IEEE 802.3z

Filtering description

At transport level

- IP/MAC addresses (source, destination) (IPv6 to come)
- UDP/TCP/SCTP ports
- VLAN (MPLS to come)
- Exclusion of non IP traffic
- Possible combinations.

Business-oriented filters (to come)

- RTP/RTCP
- OPC/DPC
- Non relevant SCTP frames (e.g.: containing only HeartBeat & HeartBeat Ack chunks)
- Protocol filters (BICC, MEGACO, BSSAP, etc.)
- Service filters
- Truncation.

SCTP	
SCTP frames with at least one of these chunk types will be kept (others are removed)	
<input checked="" type="checkbox"/>	DATA
<input checked="" type="checkbox"/>	INIT & INIT ACK
<input checked="" type="checkbox"/>	SACK
<input type="checkbox"/>	HEARTBEAT & HEARTBEAT ACK
<input checked="" type="checkbox"/>	ABORT, SHUTDOWN & SHUTDOWN ACK
<input checked="" type="checkbox"/>	ERROR
<input checked="" type="checkbox"/>	COOKIE ECHO & COOKIE ACK
<input checked="" type="checkbox"/>	ECNE
<input checked="" type="checkbox"/>	CWR
<input checked="" type="checkbox"/>	SHUTDOWN COMPLETE
<input checked="" type="checkbox"/>	others

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ZA du Plessis - CS 27241
35772 Vern-sur-Seiche cedex
France

Tel.: +33 (0)2 99 04 80 60
Fax: +33 (0)2 99 04 80 61
www.astellia.com

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