

PRODUCT SPECIFICATIONS

GigaCore³⁰ⁱ





1. APPLICATIONS

1 Gigabit Ethernet switch

The GigaCore 30i is an Ethernet switch, **dedicated to AV** integration, installation, and touring, designed to support the most advanced AV protocols. In combination with the **Araneo** software platform, GigaCore 30i is the ideal solution to deploy an entire AV network with one click in any fixed installation.

Each GigaCore can be configured through an **intuitive** built-in AV Web UI but also, System-Wide management across the Luminex network is possible with the Araneo network monitoring, planning and management software. Araneo will boost your productivity and **confidence** in the network and **reduce commissioning** times significantly.

GigaCore 30i is an indispensable part of any AV network where **reliability** and a quick and easy setup are needed. As a user, you don't need to make choices nor tradeoffs as GigaCore handles most AV protocols for you out of the box: Pre-defined QoS/DiffServ (Quality of Service) settings, optimized IGMP (Internet Group Management Protocol) per group (VLAN) and pre-defined yet editable groups (VLANs) to easily separate your network in different applications making converged networks obvious, easy and reliable.

For many applications, GigaCore 30i in the 1 Gigabit version, offers sufficient bandwidth, connectivity, and port availability with **6x independent SFP+ ports** capable of data transfer speeds of up to **1 Gbps** and 24 x 1Gbps copper ports.

Time synchronization is crucial in many applications and with GigaCore 30i you have a hassle free **PTPV2 enabled** switch which will work for most major audio protocols (e.g. AES67, ST2110, Dante, Q-sys/Q-lan, ...) without the need for making any complicated device settings.

Entertainment installations constantly push the limits, and the need to deploy PoE powered devices is continuously increasing. GigaCore 30i provides an answer to these scenarios by offering **PoE++ on all ports**

(90W per port with a total PoE budget of up to 1000W) as an option.

With 2 available slots to accept optional hot swappable slide-in power supply units, the question of **redundant power** is answered in one and the same 1U rack space. Great care has been taken to ensure silent operation by means of intelligent fan control, giving you more install options with peace of mind that no live audience or recording session would be disturbed.

For those installations where a clean front panel is required, an optional 19" flush mount LED panel can be connected to a rear mounted GigaCore 30i.

Applications:

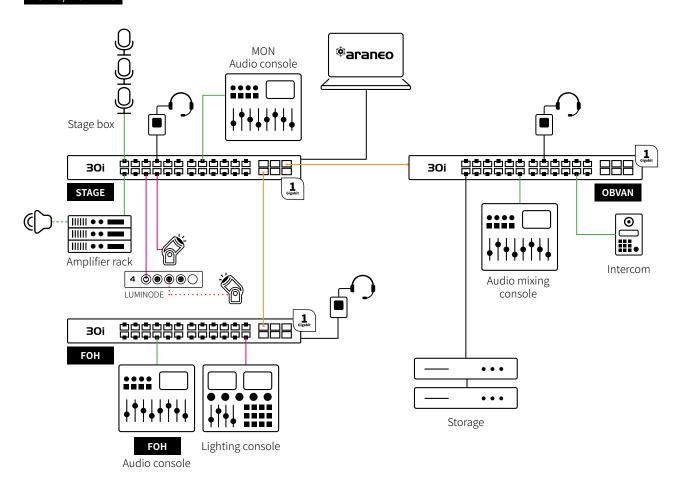
- System integrations
- Theaters
- Concert halls
- Convention centers
- Sports arenas
- Broadcast and recording studios and OB vans
- Cruise ships
- Theme parks
- Hospitality installs (hotels etc)
- Houses of worship
- And other fixed installations

ORDERING INFORMATION	
Product name:	Part numbers:
1 Gbit versions	
GigaCore 30i – 24x1G – 6x1G(SFP+)	LU 01 00077 -1-1S1
GigaCore 30i – 24x1G – 6x1G(SFP+) - 2nd PSU 100W	LU 01 00077-1-2S1
GigaCore 30i – 24x1G – 6x1G(SFP+) – PoE++	LU 01 00077-1P-1S5
GigaCore 30i – 24x1G – 6x1G(SFP+) – PoE++ - 2nd PSU 550W	LU 01 00077-1P-2S5
Slide in PSU's	
GigaCore Slide-in PSU 100W	LU 70 00639
GigaCore Slide-in PSU 550W	LU 70 00640



2. APPLICATION DIAGRAMS

AUDIO/LIGHTING







3. TECHNICAL SPECIFICATIONS

MECHANICAL	
Enclosure	Robust all metal housing
Discouries (M. D. II)	482x283,1x43,2 mm (482x308,8x43,2 mm with inserted PSU) 19x11,14x1,7 inch (19x12,15x1,7 inch with
Dimensions (WxDxH)	inserted PSU)
Material thickness	2 mm
Mounting type	Rack mount
Weight (no PSU inserted)	3,92 kg
Weight PSU	0,78 kg
Packaging dimensions	545 x 335 x 125 mm
Packaged weight	6,65 kg
CONNECTIVITY	
Network	6x 1 Gbps SFP+ cages on front panel, independent from other ports
Network	24x Gigabit (10/100/1000 BASE-T) copper RJ45 on front panel
Serial	1x USB C
Extension	1x LED extension port
Power	IEC (14C) 1x for each inserted power supply (max 2)
Backup power	IEC (14C) 1x for each inserted power supply (max 2)
Backup PoE	IEC (14C) 1x for each inserted power supply (max 2)
TEMPERATURE MANAGEMENT	
Intelligent control	Yes
Number of fans	3x + 1x for each inserted power supply (max 5 fans)
Position of fans	Rear panel
Airflow direction	Front to rear
USER INTERFACE	
	RGB LEDs
Device status	• Device
Device status	• Power
	• PoE supply
Dynamic labeling	E-ink Display
	2x RGB LED
	Port Speed/Activity
Fiber port status	Port Status
	Group indication
	2x RGB LED
	Port Speed/Activity
RJ45 port status	Port Status
N343 port status	
N3+3 port status	Group indication
	Group indication PoE
FIBER PORT SPECIFICATIONS	
FIBER PORT SPECIFICATIONS Port speed	• PoE 1000 BASE-X
FIBER PORT SPECIFICATIONS Port speed Port sensing	• PoE
FIBER PORT SPECIFICATIONS Port speed Port sensing CU PORT SPECIFICATIONS	PoE 1000 BASE-X Fixed speed
FIBER PORT SPECIFICATIONS Port speed Port sensing CU PORT SPECIFICATIONS Port speed	• PoE 1000 BASE-X Fixed speed 10/100/1000 BASE-T
FIBER PORT SPECIFICATIONS Port speed Port sensing CU PORT SPECIFICATIONS Port speed Port sensing	PoE 1000 BASE-X Fixed speed 10/100/1000 BASE-T Auto Negotiation
FIBER PORT SPECIFICATIONS Port speed Port sensing CU PORT SPECIFICATIONS Port speed	• PoE 1000 BASE-X Fixed speed 10/100/1000 BASE-T



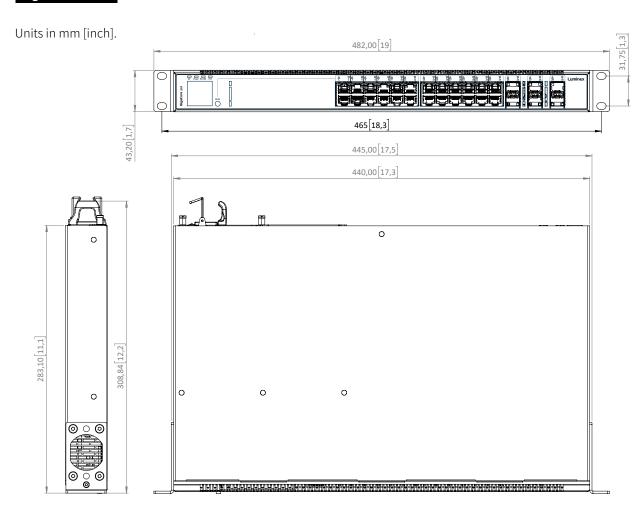
POWER OVER ETHERNET Standards PoE Ports Total PoE power budget LLDP Support Power allocation	802.3af 802.3at 802.3at, 802.3at, 802.3at, 802.3at, 802.3bt On ports 1-24 500 W (1x slide in PSU) 1000 W (2x slide in PSU) Yes User configurable: • Priority per port
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LLDP Support Power allocation	1000 W (2x slide in PSU) Yes User configurable: • Priority per port
LLDP Support Power allocation	Yes User configurable: • Priority per port
Power allocation	User configurable: • Priority per port
	Priority per port
	Consumption vs Class/LLDP based
Power limit	Total power budget firmware limit – port shutdown at overload based on port priority
Power limit	• Per port hardware and firmware power limits based on classification – port shutdown at overload
SWITCH FEATURES	
Boot time	45 s
Redundant links	Yes
Group function	Yes
	IEEE 802.2
	IEEE 802.3
	IEEE 802.3u
	JEEF 000 0. Fly. Control
	IEEE 802.3x Flow Control
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE
	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree
Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree
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Ethernet compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1cy VLAN IEEE 802.1ab LLDP
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Ethernet compliance Jumbo frames	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1cy VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB)
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Jumbo frames	IEEE 802.3af PoE IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1c VLAN IEEE 802.1Q VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN
Jumbo frames	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1c VLAN IEEE 802.1d VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet
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Jumbo frames Supported protocols	IEEE 802.3af PoE IEEE 802.3af PoE+ IEEE 802.3bf PoE++ 90W IEEE 802.1p CoS IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1v LVLAN IEEE 802.1 v LAN IEEE 802.1 v LAN IEEE 802.1 v LAN IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax)
Jumbo frames Supported protocols Audio protocol compliance	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1w Rapid Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1c VLAN IEEE 802.1d VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN SACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008)
Jumbo frames Supported protocols Audio protocol compliance Ethernet switch type	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af POE IEEE 802.3at POE+ IEEE 802.3bt POE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1v LAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008) Full non- blocking wire-speed switching performance
Jumbo frames Supported protocols Audio protocol compliance Ethernet switch type Memory	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af POE IEEE 802.3at POE+ IEEE 802.3bt POE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1a b LLDP IEEE 1588-208 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008) Full non- blocking wire-speed switching performance Flash 1 Gb RAM – 8 Mb NOR flash 4 Gb EMMC storage
Jumbo frames Supported protocols Audio protocol compliance Ethernet switch type Memory Mac Address table	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1o VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008) Full non- blocking wire-speed switching performance Flash 1 Gb RAM – 8 Mb NOR flash 4 Gb EMMC storage 16384 entries
Jumbo frames Supported protocols Audio protocol compliance Ethernet switch type Memory Mac Address table Address learning / aging	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1d VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008) Full non- blocking wire-speed switching performance Ilash 1 Gb RAM – 8 Mb NOR flash 4 Gb EMMC storage I6384 entries Self learning, Auto aging
Jumbo frames Supported protocols Audio protocol compliance Ethernet switch type Memory Mac Address table	IEEE 802.3ab Gigabit Ethernet IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE++ 90W IEEE 802.1p CoS IEEE 802.1d Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.1o VLAN IEEE 802.1ab LLDP IEEE 1588-2008 PTPv2 Yes, supported up to 12000 MTU (with restrictions when using AVB) Avnu AVB/Milan (Available in future FW update) Dante RAVENNA/AES67 Ethersound Q-SYS/Q-LAN sACN ArtNet MANet HogNet RTTrPL (BlackTrax) Yes, low jitter and hardware timestamping (IEEE 1588-2008) Full non- blocking wire-speed switching performance Flash 1 Gb RAM – 8 Mb NOR flash 4 Gb EMMC storage 16384 entries
	Yes IEEE 802.2 IEEE 802.3 IEEE 802.3u



MANAGEMENT	
Configuration	Built-in WebUI
Network wide configuration	Yes, with Araneo software
Firmware upgrades	Via WebUI or network wide with Araneo - Contingency option with second FW file stored
POWER	
Power input	100-240 VAC
Backup power	Yes with 2nd slide in PSU
Backup PoE	Yes with 2nd slide in PSU 550W
Power consumption	Max 50W - Max 1050W (Depending on PoE and PSU configuration)
ENVIRONMENTAL	
Operating temperature	0 to +50 °C
Storage temperature	-10 to +70 °C
APPROVALS	
	FCC Part 15 CFR 47 class A
	CAN/ICES-003
Electromagnetic emissions and immunity	EN 61000
	EN 55032
	EN 55024
	IEC 62368-1
6.1.	EN 62368-1
Safety	UL 62368-1
	CAN/CSA-C22.2 No. 62368-1
	cSGSus Mark (UL)
	CE Mark
Certificates and approvals	UKCA Mark
	CB Certificate
Green	Rohs



GigaCore 30i - 1G





GigaCore 30i - 1G





PSU GigaCore 30i

