

escQTN - Quantum Trusted Node

Quantum Trusted Node is a key building block of your QKD (Quantum Key Distribution) infrastructure and your gateway to existing or future satellite or terrestrial QKD solutions.

Main benefits of Quantum Trusted Node

- Streamlined transfer of quantum keys to the end users.
- Point-to-point data transfer using quantum keys.
- Secure data storage with data access auditing features.
- Flexible connectivity that allows you to build your own QKD network that suits your needs.



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Technical Specifications

Features

Fiber channel max. length	20/40/80 km
Key storage capacity	30.000 keys
Data storage capacity	960 KiB
Secure Erase	Yes
Classification	call*

Interfaces

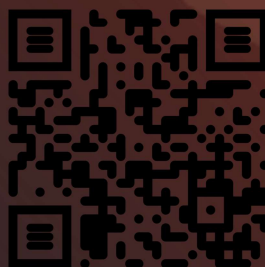
GNSS	2x
Fiber channel	2x
Ethernet ports	4x
USB	2x
LCD	E-paper
QKD Terrestrial	call*
QKD Satellite	call*

ENVIRONMENTAL PARAMETERS

Power Supply Input	12 V \pm 10%
Operating temperature range	+5 °C to +55 °C
RoHS compliance	Yes
CE Safety	IEC 62638-1:2018 IEC 60825-1:2014

Dimension

Width	19"
Height	2U



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esc Aerospace as product neutral systems integrator and HW/SW product developer with a focus on Space and Defence offers: Mission Critical Software; Multipurpose Drive Electronics; On-Board Systems: DPU with subsystems MMU, PCPU, RTU, SDR; Space qualified On-board Computer (OBC, OBDH); Secure Communication: SATCOM, QKD; True Random Generator; Payloads: Hyperspectral Cameras, Lidars, Ionizing Radiation Detectors Space Pix; EGSEs/SCOEs; Avionics for Unmanned Systems.