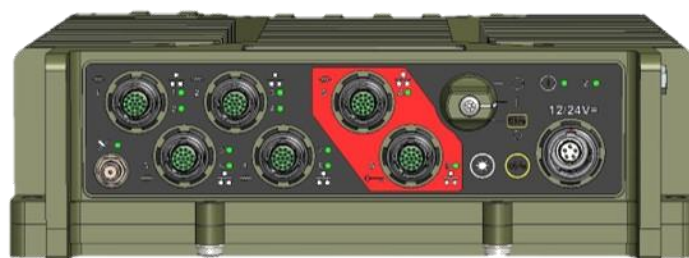




KONGSBERG

CC600 Communications Controller



Secure resilient networking for complex operations

The CC600 is an appliance that both forwards data and provides basic security functions for any system platform. The CC600 will assess the traffic and select the right link (e.g. VHF/UHF tactical radio, LTE/5G, INMARSAT/VSAT, Military Satcom and gigabit Ethernet) based on the packet content, destination, Quality of Service requirements, and link quality and availability.

The CC600 provides information to the attached system platform on communications status and network availability. CC600 allows traffic to be forwarded on the different network resources in an optimum way, not overloading the available resources and thus supporting exchange of the most critical information between platforms.

RESILIENCE AND TRAFFIC SHAPING

Support of a variety of transmission technologies enables optimized network performance. This provides maximum resilience and survivability.

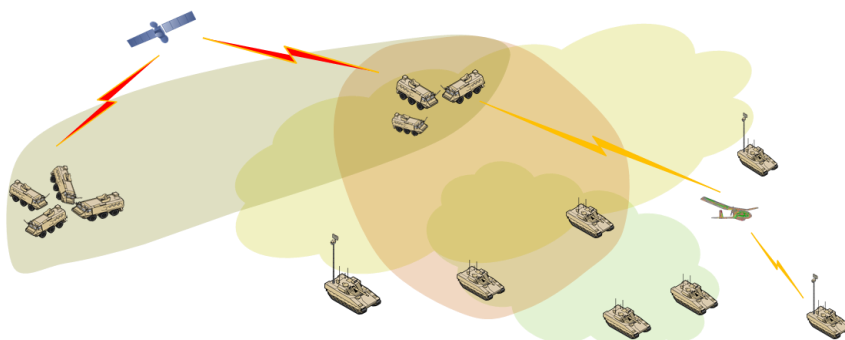
Critical information may be duplicated – or packets dropped on congested links to ensure critical data to pass. The policy controls access to and use of network resources.

For some applications the possible separation of platform communication from payload communication while sharing the network resources is of great importance for safe operation.

CYBER

The CC600 provides military grade encryption using IPsec for all bearers. Advanced anti-tamper mechanisms support the use at unmanned platforms.

The CC600 provides secure elements to facilitate extended cyber protection at e.g. autonomous platforms. The Intrusion Detection/Prevention System protects against a wide range of cyber attacks.



Product Highlights

- Data forwarding over heterogeneous links for resilience
- Content aware routing. Traffic shaping to optimize use of network resources
- Flexibility in network capacity versus RF bandwidth
- Network status reported to applications on DDS
- Embedded AES256 encryption
- Heterogeneous networking capabilities combined with security features for cyber attack resilience.

APPLICATION EXAMPLES

Autonomous and remotely controlled platform networks, sensor systems, weapon systems, coastal surveillance, Army and Navy C4I systems



Naval Systems



Weapon Systems



Coastal Surveillance



C4I Systems

NETWORK STATUS INFORMATION

The CC600 provides communication status information to the attached system platform. The information facilitates application controlled changes in data granularity, interval of dissemination or other means to ensure optimum use of the available network resources.

COMMUNITY OF INTEREST

The CC600 provides features that separates the platform C2 system traffic from payload and hosted applications while sharing the network resources. This allows the platform to host different payloads while C2 and safety critical communication get required priority to the network resources.

HANDLING COMPLEX NETWORKS

The CC600 simplifies the organization and utilization of heterogeneous communication links. Once integrated with the system, the transmission capability is utilized at full with minimum user intervention.

The user focus is on the battle – not communications.

PRODUCT SPECIFICATIONS

PROTOCOLS AND INTERFACES

IP Version	IPv4 and IPv6
LAN interfaces	100/1000 Base-TX
WAN interfaces	10/100 Base-TX
	Serial Interfaces (RS-232, RS-422/-485)
GNSS	RF with DC provision and NMEA w/1 pps
	NTP Server function
Input voltage	19 – 32VDC
Power consumption	35W

SERVICES

Multicast
Unicast
OSPF/RIP routing
Policy based forwarding
Traffic Shaping

SECURITY

AES 256 encryption
Firewall, Platform/payload separation
Secure Element
Anti-Tamper mechanisms

MANAGEMENT

Web (https)
SNMP

PHYSICAL CHARACTERISTICS

Height x Width x Depth	65 x 217 x 287 mm
Weight	3.5 kg

ENVIRONMENTAL

Operating temp.	-35°C to +55°C
Environment	MIL-STD-810 (Army Ground)

