

# speedcast

## **MEDIA NETWORK**

**Product LINE - THE NANO 1U EDGE DEVICE**

# SMN “Nebula Nano” Protected IP I/O Video Routing

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# InAria! IP “Nebula Nano” Network Appliance Technical Specifications

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## In Aria! Appliance Physical Specifications

Control and Monitoring: In Aria! IP only network appliance Customer Management and Monitoring Web Portal  
Power: 5W (single) - 10W (dual configuration) max power draw (110-240VAC @50-60Hz)  
Physical: 1 RU low depth chassis (19" x 5.9" x 1.7"), net weight 2,75lb (single) - 3,5lb (dual configuration)  
Mounting: 1 standard rack units with brackets  
Ports: 2 x GB Ethernet, 2X USB and MicroSD for UEFI boot  
Transport: 1Gig Ethernet, IP MPEG-2 Transport Stream ISO/IEC standard 13818-1 Multiple TS channels (SPTS & MPTS) can be transported simultaneously up to 250 Mbps

## In Aria! network appliance

In Aria! Nano IP Only (Protected MpegTS Routing with In Aria! OttvideoOS patented protocol) appliance

### Mpeg-TS Tunneling

Auto-adaptive FEC combined with proprietary SR-ARQ low overhead error correction  
Auto-latency, with minimal protected transport latency (120ms)  
Encryption RSA + AES 128 & 256  
Primary and backup source MpegTS  
Primary and backup destination with auto failover to back-up RX  
Auto SR-ARQ Timing and tuning  
SPTS, MPTS transport  
Multiple UDP Port Stream (pool of ports) for basic multi path capabilities  
Auto Re-socketing system built-in

### Routing

Reflector/proxy functionality over any other In Aria! network node.  
DSCP QoS Support  
Static Routes for MLPS Integration, ultra low latency MPLS module integration

### In Aria! network appliance node

Clustering main/backup with auto failover of all active services  
Cloud based platform registration DB (for centralized node management, monitoring & multi user alerting system)  
Cloud Based licensing system  
Cloud Based API for auto management of all nodes in the global DB  
Centralized Remote Management of professionals IRD, Encoder and Decoders connected to the nodes via built in VPN access  
Cloud Based Permanent and Occasional Use centralized management of video feeds