



Creative
Interconnect
Solutions

RVD 12,1"



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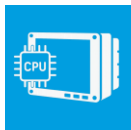
[NICOMATIC.COM](https://www.nicomatic.com)



**Optimal readability
in harsh environments**
12.1" 1200-nit sunlight-readable
display with multitouch.



Easy system integration
Comprehensive I/O (Ethernet,
RS232, HDMI, RS170, USB)
with GVA options.



**High embedded
computing performance**
Intel® i7 processor for real-time video
and mission-critical applications.



Proven military-grade robustness
IP68, -40°C to +85°C, compliant with
MIL-STD-810G / 1275E / 461F

Product specifications

DISPLAY FEATURES

Display Size	12.1"
Resolution	XGA (1024 × 768)
Brightness	1200 nits (sunlight readable)
Display technology	LCD optically bonded
Dimension/ Weight	340mm(W) x 290mm(H) x 85mm(D) / 6.4KG

Backlight	LED Backlight lifetime: 70,000 hours
Touch Screen & Protection	AMR resistive multi-touch (10 points), Anti-glare film, Optical bonding
Video capture	RS170 input NTSC: 120 fps @ 960/720 × 480 PAL: 100 fps @ 960/720 × 576

INTERFACES & SW

Processor	Intel® Core™ i7-10510U Up to 4.9 GHz 4 cores, 8 MB Smart Cache
Graphics	Intel® UHD Graphics (integrated GPU)
Operating System	Windows 10 Professional Windows 10 IoT LTSC 2019
Memory	DDR4 2400 MT/s 16 GB Dual channel
Storage	1 TB MLC SSD Operational range: -40 °C to +85 °C
Interfaces	2 × Gigabit Ethernet (10/100/1000 Mbps) 5 × RS232 1 × USB 2.0 1 × HDMI output 1 × RS170 video input UPS port (graceful shutdown) Optional: CAN bus, HD-SDI, RS422
Function keys	28 programmable function keys, GVA layout, Rubber type with Nicomatic metal dome, Green LED backlight
Additional features	Built-in G-sensor (shock & vibration detection), Built-in hour meter, Low- latency RS170 video streaming, Conduction cooling

POWER SUPPLY & QUALIFICATION

Power Supply	9 – 50 VDC Nominal: 28 VDC Compliant with MIL-STD-1275E Optional compliance: MIL-STD- 704
Power consumption	55 W max in operation
Operational Temp	-40 °C to +85 °C
Humidity	0 – 95 %
Ingress protection	IP68 (water & dust)
EMI / EMC	MIL-STD-461F
Environmental & mechanical standards	MIL-STD-810G (shock, vibration, temperature) MIL-STD-1275EMIL-STD-704 (optional)
PCBA standard	IPC-610 Class II, Conformal coating

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