HYDRA-N6

7” Rugged, Customizable Arm Tablet with Quad or Dual Core Cortex-A9 NXP i.MX 6 Processor

Rugged Arm tablet customizable to get the job done

HIGHLIGHTS

CPU
Quad or dual core Cortex-A9 NXP i.MX 6 processor

CONNECTIVITY
Wi-Fi (802.11 b/g/n/ac), Bluetooth 4.2, Cellular (via mPCIe slot), 10/100/1000 Ethernet (via 26-pin expansion connector)

GRAPHICS
7” WSVGA (1024x600) sunlight-readable display with automatic brightness and rotation control

MEMORY
RAM: 2 GB DDR3 (1GB, 2GB, 4GB available). Nonvolatile: 32 GB standard (8 - 128 GB available). Internal uSD card slot

MAIN FIELDS OF APPLICATION

Aerospace & Defense

Industrial Automation

IoT

Medical

FEATURES

Processor	Quad or dual core Cortex-A9 NXP i.MX 6 processor
Memory	RAM: 2 GB DDR3 (1GB, 2GB, 4GB available)
Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D, OpenVG™ accelerator HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4 / XviD, H.263, H.264, DivX
Display	7” WSVGA (1024x600) sunlight-readable LCD Resistive multi-touch (1.8 mm chemically strengthened glass optically bonded to LCD, anti-glare treatment); Options for capacitive touch available
Mass Storage	Nonvolatile: 32 GB standard (8 - 128 GB available) Internal uSD card slot
Networking	Wi-Fi: 802.11 a/b/g/n/ac; Bluetooth 4.2; Cellular modem via mPCIe slot + SIM 10/100/1000 Ethernet (via 26-pin expansion connector)
USB	1 USB 2.0 OTG on Type C; 1 USB 2.0 host on Type A; additional USB 2.0 host optionally connected to expansion connector
PCI-e	Internal to mPCIe slot
Audio	Stereo speakers and digital microphone standard. Audio line-in and line-out optionally connected to expansion connector
Serial Ports	RS-232, RS-485, UART, I2C, SPI optionally connected to expansion connector
CAN Bus	2 CAN optionally connected to expansion connector
Other Interfaces	Expansion Connector: DB-26 with screw locks. Factory configurable functionality. Interfaces available are: I2C, GPIO, CAN, UART, RS-232 or 485, SPI, Gigabit Ethernet, USB, DC input, 5 VDC output

Geolocation	Internal GPS module with Galileo, GLONASS, and BeiDou support
Camera	5 MPixel rear facing color camera with autofocus
Other Features	Haptic Feedback: On-board motor Real Time Clock (RTC): +/-10 ppm, backed by coin cell battery
Sensor	Accelerometer Gyroscope Magnetometer Ambient light sensor (photometer) Barometer Temperature
Power Supply	12V – 28 V DC input via barrel jack Batteries: 44 WHr of Lithum Polymer battery capacity with internal charging and fuel gauge. Coin cell for real time clock.
Operating System	Android 7.x (Nougat) or later, Linux 4.x. Inquire for RTOS (including VxWorks)
Operating Temperature	-20°C to 70°C operating temperature (Extended) -30°C to 80°C storage temperature
Environments	IP67 submersible to 1 meter for 30 minutes. Designed per MIL-STD-810 for shock. vibration, drop, and more
Dimensions	Enclosure: 8.42” x 5.67” x 1.1” With protrusions: 8.49” x 5.90” x 1.1” Weight (tentative): 865 g

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet