

Smart Family

- Scalable hardware architecture to meet increasing workloads

So Embedded multicore processors

- State LTE and GPS available as optionals
- SSD from 128GB up to 1TB according to customer needs
- Smart design
- IP68 protection grade

- Stended temperature range (-40°/+ 60°C | -40°/+140°F external temperature)
- In the hardware system has been designed using a modular approach ensuring future CPU evolutions for state of the art performances.
- S Modular Platform designed to include various sensors in order to match all the applications required by the most challenging scenarios.

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Scalable HW architecture to include different FPGA modules and to ensure high-speed image processing in extreme situations.



- So Use of FPGA grants a huge processing capability for real-time image processing and ANPR analysis.
- So Modular architecture allows easy customization of the HW platform according to the complexity of the application.
- Devices able to detect and read non-reflective license plate, without any external illuminator.
- Stra sensitive sensor mounted on Smart 2HD's context camera ensures quality images also in low light conditions (from 25 Lux).



S Real time detection of violations with OCR on board

- So Embedded multi-tracking radar
- So No post-processing required
- Detection of vehicles exceeding average speed or punctual speed limits
- Ability to recognise every plate passing under the camera and not only violators. This is very useful for security or statistical purposes
- All transit plates are recorded and available for further analysis

Software features and	Software features and Performance	
Lane Detected	2	
Max Vehicle Speed	300 km/h - 186 mph	
Working Distance	Up to 35 m - Up to 115 ft	
Detection	99%	
Reading	>95%	
OCR	ANPR (ALPR) engine on board	
Third party OCR	optional	
Capture rate	Up to 75 fps	
Classification	optional	
Vehicle Color	optional	
Vehicle Brand	optional	
Vehicle Model	optional	
AES256	Yes	
SHA2	Yes	
Compression	JPG	
Streaming	Video streaming via standard RTSP protocol	
Configuration		
Web Server	Installation and configuration by Web Server on board	
TCP/IP Server	Configuration and monitoring through TCP/IP protocol. (SDK provided)	
Date and Hour	Synchronization via NTP protocol, IEEE1588, GPS	
Software Update	Upgrading via Web Interface and SDK	
Data Transmission		
FTP	FTP Client to FTP Server mode for remote data transmission; Multiple IP servers addressable	
TCP/IP	Tattile TCP/IP open protocol; (SDK provided)	
Standard protocols	XML; SNMP; NTCIP; DATEX2; UTMC; ONVIF; MODBUS	
Serial Port	Insulated RS485	

SMART SPEED

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Op. Mode	
Free Run	Continuous processing with automatic vehicle detection, even without plate
Triggered	Image capture and processing triggered by Ethernet command or digital signal
System	
ANPR (ALPR) camera	5 MPX BW
Context camera	2.3 Megapixel color CMOS sensor
Illuminator	12 high power LEDs, InfraRed @ 850 nm
Lenses	C-Mount. Many focal lengths available
Operating System	Linux Operating System
Digital i/o	6 Optoisolated input - 4 Relay Output - 1 Strobe output
Connectors	Waterproof circular connector
IP Protection	Waterproof IP68
Ethernet	GigaBit Ethernet 10/100/1000
Storage	uSD up to 128 GB
	Optional HD/SSD
GPS	Yes
LTE	Optional
LTE	Optional
Technical Data	
Operating & Storage Temperature	From -40° to +60° C - <i>From -40° to</i> +140° <i>F</i>
Operating & Storage Humidity	Up to 95% non condensing
Dimensions	404 x 127 x 235 mm - 15.9 x 5 x 9.25 in (WxHxL)
Weight	7.4 kg - 16.31 lbs
Power supply voltage	24 Vdc
Power consumption	50 W (max)

Part Numbers

Smart Speed	
F01766	Smart Speed