

# Multimedia Application Kit - ConnectCore™ 9M/Wi-9M 2443

## Camera Hardware Quicksheet



### Active-Pixel Digital Image Sensor (Micron MT9V111)

Parameter		Typical Value
Optical format		1/4-inch (4:3)
Active imager size		3.584 mm (H) x 2.688 mm (V)
Active pixels		640 x 480 (VGA)
Pixel size		5.6 µm x 5.6 µm
Color filter array		RGB Bayer pattern
Shutter type		Electronic rolling shutter (ERS)
Maximum data rate		12–13.5 Mbps
Master clock		24–27 MHz
Frame rates <sup>1</sup>	VGA (640 x 480)	15 fps at 12 MHz (default), programmable up to 30 fps at 27 MHz
	CIF (352 x 288)	Programmable up to 60 fps
	QVGA (320 x 240)	Programmable up to 90 fps
ADC resolution		10-bit, on-chip
Responsivity		1.9 V/lux-sec (550nm)
Pixel dynamic range		60 dB
SNRMAX		45 dB
Supply voltage		2.8 +0.25V
Power consumption		<80mW at 2.8V, 15 fps at 12 MHz
Operating temperature		-40°C to +85°C
Packaging options		52-Ball IBGA, wafer or die

<sup>1</sup>Actual frame rate performance depending on target hardware platform

### Lens

Parameter	Value
Focal length	2.5 mm
Aperture	F2.0
Horizontal field of view	120°
Minimum object distance	0.2m
Format	1/3"
Mount	M12 x 0.5
Dimensions	∅ 14x17 mm
Weight	6 g



PN (1P): 90001094 A