



# Cloud Cap Technology Piccolo Nano

## Compact Modular Flight Management

The Piccolo Nano line is the newest and smallest addition to the Cloud Cap Piccolo family of autopilot systems. Designed to meet the requirements of the smallest UAVs where the vehicle structure provides the enclosure and the autopilot components need to be distributed within the airframe's available space.

Compatible with the existing industry standard Piccolo autopilot series in both software and feature capability. The Piccolo Nano series provides small, lightweight, flexible architecture to support the myriad of designs in small hand launched or uniquely configured UAS systems.

### Key Features

Unenclosed distributed autopilot system to provide maximum installation flexibility and minimum weight

Includes avionics board, GPS with passive antenna (helical antenna option available), and radio board as a complete package. (Components available separately)

Dedicated connectors for JR DSM satellite receivers

Compatible with Piccolo line of autopilots and Piccolo Command Center software

Same market leading functionality\* available as with other Piccolo autopilots

\*Multiple versions of the Piccolo Nano are available that provide different levels of functionality



**UTC Aerospace Systems**

## Specifications

60-pin Samtec TFM series vertical connector  
 Vin: 6 - 30 volts  
 Operating Temperature: -30°C to +80°C (calibrated range)  
 Three RS232 payload interfaces  
 Configurable GPIO lines  
 CAN: Simulation / general interface  
 Flight Termination: Deadman output  
 Size: Piccolo avionics board - 46 x 76 mm (1.8 x 3.0 inches)  
 System Weight: Avionics board - 22 grams, 900 MHz radio with board - 29 grams, GPS - 13 grams

### Radio Options

900 MHz unlicensed ISM  
 900 MHz Australian band  
 2.4 GHz unlicensed ISM  
 310-390 MHz discrete  
 1350-1390 MHz discrete  
 1670-1700 MHz discrete

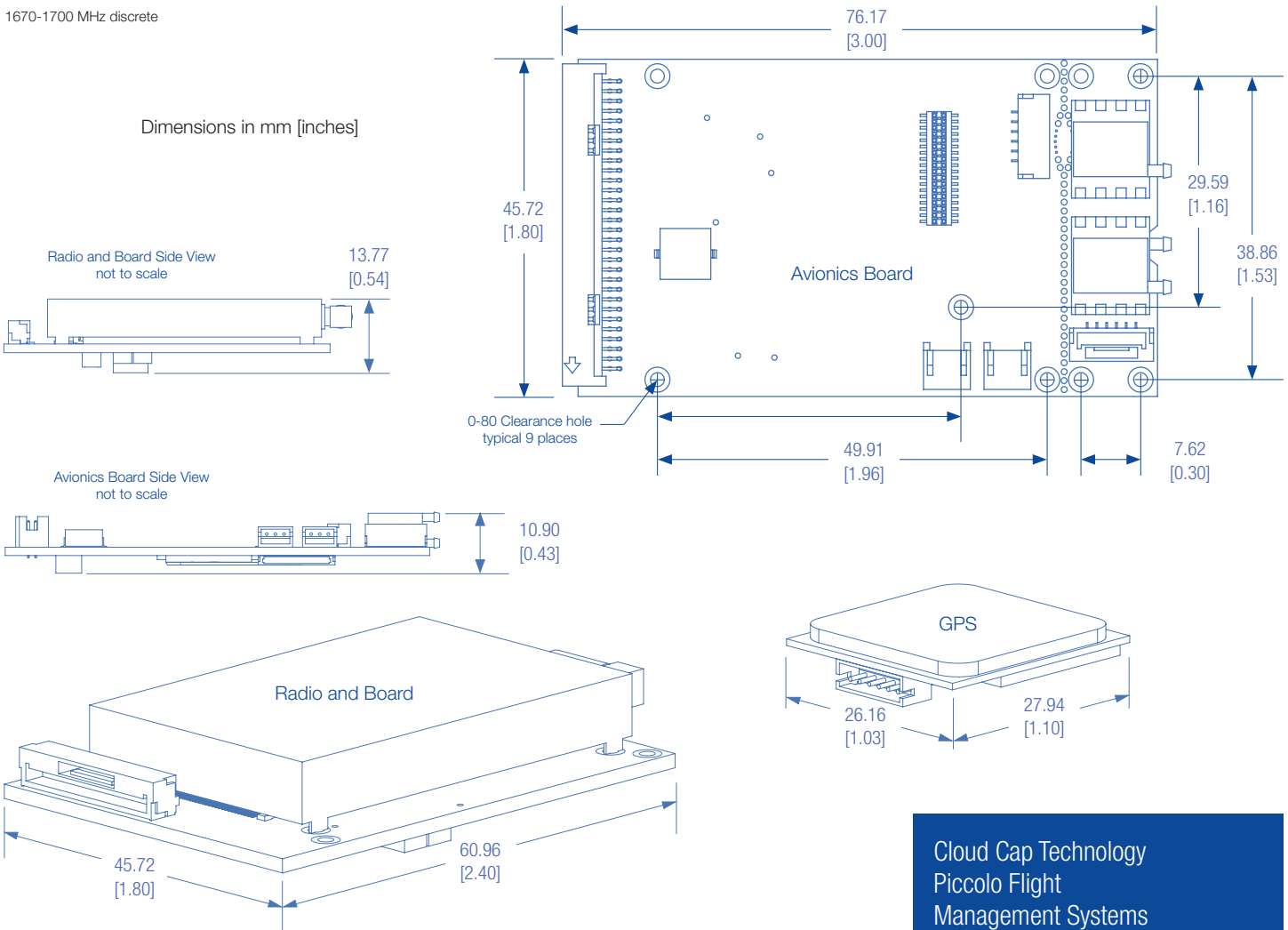
## Piccolo Nano Capabilities

Features	Limited	Reduced	Standard
I/O connections	6	14	14
Waypoints	12	1000	1000
Launch modes <sup>1</sup>	(a) or (b)	(a), (b), (c)	(a), (b), (c)
Landing modes <sup>2</sup>	(d)	(d)	(d), (e), (f)
Microhard Radio	yes	yes	yes
CCT GPS	yes	yes	yes
DGPS	no	no	yes
Serial ports	1	3	3
Can bus support	no	yes	yes
Servo based pan-tilt camera support	yes	yes	yes
Laser altimeter support	no	no	yes <sup>3</sup>
Moving baseline support	no	no	yes <sup>3</sup>
VTOL	no	no	yes <sup>3</sup>

<sup>1</sup>Launch modes: (a) catapult, (b) hand tossed, (c) car top

<sup>2</sup>Landing modes: (d) belly, (e) wheel, (f) net

<sup>3</sup>With purchase of feature upgrade license



### For additional information:

Cloud Cap Technology  
 202 Wasco Loop, Suite 103  
 Hood River, OR 97031  
 USA  
 Ph: +1.541.387.2120  
[www.cloudcaptech.com](http://www.cloudcaptech.com)

Cloud Cap Technology  
 Piccolo Flight  
 Management Systems