

NEWSPACE MARKET · COMPANY PROFILE



Data Patterns (India) Ltd.

India · founded 1998 · datapatternsindia.com

36

PRODUCTS

5

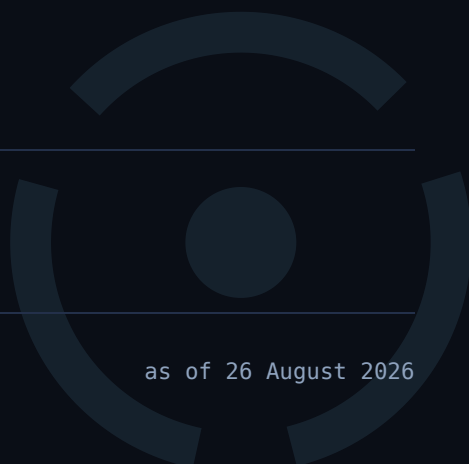
SERVICES

12

WITH DATASHEETS

newspacemarket.com/companies/data-patterns-india/

as of 26 August 2026



Data Patterns (India) Ltd.

Data Patterns (India) Ltd. is a vertically integrated Defence and Aerospace electronics solutions provider based in Chennai, India, catering to the indigenously developed defence products industry. Incorporated in 1998 (CIN: L7200TN1998PLC061236), the company has built a two-decade history of developing high-reliability electronic products, with the broad capability to design, prototype, qualify and manufacture a wide range of high-reliability systems using its captive manufacturing facility. The company's product range spans COTS boards (VPX, VME, cPCI, FMC/XMC/PMC, IP & MM, VXI), Automatic Test Equipment (ATE) and functional test systems, RF & microwave building blocks, electronic warfare systems, cockpit and rugged displays, radar and radar subsystems, IFF (Identify Friend or Foe) systems, avionic LRUs for manned and unmanned aircraft, laser and electro-optic systems, space systems, power supplies, naval systems, communication products, gimbal and actuator controllers, launch and fire control systems, high-speed processors, digital IF processors/waveform generators, consoles, navigation systems and software/application products. Data Patterns is publicly listed on the Indian stock exchanges (NSE: DATAPATTNS) and is recognized by its customers, including DRDO, ISRO, BrahMos Aerospace, the Indian Armed Forces and major defence PSUs such as Bharat Electronics Limited, for its ability to deliver complex, high-reliability defence and aerospace programs in short turnaround times. The company operates an ISRO-approved manufacturing facility and has supplied space-grade avionics assembly, test equipment and satellite subsystems for India's space program, including test benches for ISRO's PSLV and GSLV launch vehicles and the Satish Dhawan Space Centre (SHAR) launch

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Environmental Qualification Testing Services

Data Patterns offers environmental qualification testing services to ensure products meet required standards and perform reliably under various environmental conditions.

Hardware Design Services

Data Patterns provides comprehensive hardware design and development services, including architecture, detailed schematics, PCB design, FPGA development, and test adapters for various COTS and custom

Product Development Services

Data Patterns offers comprehensive product development services, guiding customers through transition, initial operational, steady, and reversibility phases to enhance products, improve time-to-market

Structural Analysis

Data Patterns conducts structural analysis during hardware design to ensure the physical integrity and robustness of products under various mechanical loads and conditions.

Thermal Analysis

Data Patterns performs thermal analysis as part of their hardware design process to ensure product reliability and prevent issues related to heat dissipation.

Product catalogue



ATS Power Module Checkout

DATA PATTERNS (INDIA) LTD.

ATE for Space Systems

Automated Test Equipment product line built for validating spacecraft, launch vehicle and missile subsystems.

price on request



DATA PATTERNS (INDIA) LTD.

Automated Test Equipment (ATE) for Aerospace and Space Applications

Data Patterns develops Automated Test Equipment (ATE) for critical aerospace and space requirements, including test benches for launch vehicles, power module checkout for space pro

Initial product	DP-800 Multi Programmer (1994)
Test system architectures	cPCI, VME, VXI
Bmu test system i/o	> 3000 I/O's
Second launch pad count down system i/o	Upto 14000 I/O
Strain data acquisition system ADC	24 bit Sigma Delta ADC

price on request datasheet



IFF Interrogator

DATA PATTERNS (INDIA) LTD.

Avionic Systems

Airborne LRUs and mission computers for manned and unmanned aircraft

price on request



Bus Management Unit Test System

DATA PATTERNS (INDIA) LTD.

Bus Management Unit

A comprehensive test system designed to test redundant architectures of Bus Management Units, performing tests of over 3000 I/O's.

price on request datasheet



DATA PATTERNS (INDIA) LTD.

C & S-Band Tracking Radar for ISRO

A tracking radar system developed by Data Patterns for the Indian Space Research Organisation (ISRO), operating in C and S-bands.

Product name R12

Description C & S-Band Tracking Radar for ISRO

[price on request](#) [datasheet](#)



Automatic Cable Harness Test System

DATA PATTERNS (INDIA) LTD.

Cable Harness Test System

Data Patterns has built high reliability Cable Harness Test Systems for large installations, primarily used in launch vehicle, aircraft, and missile level cable harness test valida

[price on request](#) [datasheet](#)



DATA PATTERNS (INDIA) LTD.

Cockpit & Rugged Displays

Multi-function rugged LCD cockpit displays from 3 inch to 20 inch

Display size 3" to 20"

Video formats RS170, Stanag 3350, PAL, VGA, DVI, ARINC 708, ARINC 818

Interfaces ARINC 429, ARINC 708, RS422, MIL-1553B

Protocols AFDX, Ethernet, Fiber Channel, USB

[price on request](#)



Dual Ethernet Adapter

DATA PATTERNS (INDIA) LTD.

Communication Products

Military protocol communication modems and interface products

[price on request](#)



DATA PATTERNS (INDIA) LTD.

Console

Data Patterns designs and manufactures system-level consoles for various applications, including naval, land-based missile launch, satellite ground stations, and radar operations.

[price on request](#)



DP-cPCI-5202
Quad IP Carrier Module With Front I/O

DATA PATTERNS (INDIA) LTD.

COTS Boards

Open-standard COTS modules for rugged and ATE platforms

[price on request](#)



Second Launch Pad Count Down Checkout System

DATA PATTERNS (INDIA) LTD.

Count Down Test System

The Second Launch Pad Count Down system is implemented using VXI hardware designed by Data Patterns, featuring a redundant system handling up to 14000 I/O points.

price on request [datasheet](#)



DP-cPCI-5586 High Voltage Insulation Tester

DATA PATTERNS (INDIA) LTD.

cPCI COTS Modules

Compact PCI processor, display and I/O modules and chassis

price on request



4-Channel, 250 MHz 16-bit ADC PMC XMC Module

DATA PATTERNS (INDIA) LTD.

Digital IF Processors & Waveform Generators

High-speed digitizer and waveform generation modules for signal processing

price on request

DATA PATTERNS (INDIA) LTD.

DP-OBC-0402 On Board Computer

A rugged, PC104-form-factor On Board Computer module built around a dual-core e200 processor, providing signal processing and communication interfacing for cube/nano satellite subs

Processor	e200 core processor, dual core
Core configuration	Lock-step mode or decoupled parallel mode
Form factor	PC104 compatible
Extended memory	8GB SD card, 2MB external flash, 8MB SRAM
Serial interfaces	4x RS422, 2x SPI, 3x I2C
Network interfaces	2x Flex CAN, 10/100 Mbps MII Ethernet
Health monitoring	Watchdog Timer for processor health monitoring, ADC for temperature/sensor monitoring

price on request



DATA PATTERNS (INDIA) LTD.

Electronic Warfare Systems

Integrated ECM/ESM, spectrum monitoring and direction finding solutions

Frequency	1.5 - 30 MHz
Frequency (2)	2 to 30 MHz
Frequency (3)	30-500 MHz
Power	500 W
Power (2)	1000 W
Power (3)	1KW
Frequency (4)	45 MHz

price on request



DATA PATTERNS (INDIA) LTD.

FPGA Mezzanine Card (FMC)

A family of FPGA Mezzanine Card (FMC), Signal Conditioner Card (SC) and Switched Mezzanine Card (XMC) plug-in modules from Data Patterns for high-speed ADC/DAC digitization, wavefo

Product name	DP-FMC-1002 - Dual Channel 12 BIT / 10 Bit 4 GSPS / 3 GSPS FMC ADC Module
Product name (2)	DP-FMC-2009 - Dual Channel 14 BIT FMC DAC Module
Product name (3)	DP-FMC-5001 - 400 MHz Dual Channel 14 BIT FMC ADC
Product name (4)	DP-FMC-5004 - 125 MHz Quad Channel 16 BIT FMC ADC
Product name (5)	DP-PMC-1104 - Quad Channel 105 MHz 16 BIT ADC PMC Module
Product name (6)	DP-PMC-5346 - 2 Channel PCM Frame Sync & IRIG B Reader Module
Product name (7)	DP-PMC-5535 - Intelligent 3 Node 1553B BC/RT/MT Module

price on request



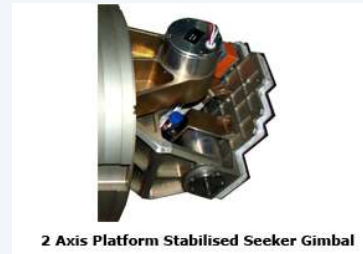
Generic RF ATE

DATA PATTERNS (INDIA) LTD.

Generic RF ATE

The Generic RF ATE is developed to test Radar and Radar Subsystems, primarily built using instrumentation control, precision RF routing systems, and rack-mounted test instruments.

price on request [datasheet](#)



2 Axis Platform Stabilised Seeker Gimbal

DATA PATTERNS (INDIA) LTD.

Gimbal and Actuator Controller Products

BLDC motor drivers and actuator controllers for gimbal, thrust vector and control surfaces

price on request



DATA PATTERNS (INDIA) LTD.

Ground Station

The Ground Station is an open-frame architecture designed to support space segment operations and relay mission data to users, featuring independent uplink and downlink communicati

Product type **Ground Station System**

price on request



High Performance VPX based FMC
Carrier Module

DATA PATTERNS (INDIA) LTD.

High Speed Processors

Multi-core and FPGA-based high-speed processing modules for radar and image processing

price on request



Control and display Unit

DATA PATTERNS (INDIA) LTD.

Identify Friend & Foe (IFF) Systems

STANAG 4193 compatible IFF transponders and interrogators

price on request



Instrument Test Unit ATE

DATA PATTERNS (INDIA) LTD.

INTU ATE

The Instrument Test Unit For Advanced Inertial Sensors (INTU) is designed for testing and evaluating Ring Laser Gyros used in GSLV/PSLV launch vehicles, detecting angular displacem

price on request

[datasheet](#)



DATA PATTERNS (INDIA) LTD.

IP & MM (Industry Pack and M-Module Modules)

A family of Industry Pack (IP) and M-Module (MM) mezzanine I/O modules compliant with ANSI-VITA 4, providing compact, ruggedised digital, communication, sensing and precision-source

Dp-IP-3039	48 Channel Digital I/O IP Module
Dp-IP-3084	48 Channel TTL I/O IP Module
Dp-IP-3113	16 Channel Differential Digital I/O Module
Dp-IP-4221	8 Channel RS422/485 Serial Communication IP Module
Dp-IP-4299	8 Channel ARINC 429 IP Module
Dp-IP-5208	4 Channel Pulse Generator Output IP Module
Dp-IP-5307	8 Channels of Relay Output & 3 Channels of Digital/Octo/Differential Input IP Module

price on request



DATA PATTERNS (INDIA) LTD.

Laser and Electro-Optic Systems

Electro-optical products for surveillance, imaging and missile test

price on request



Second Launch Pad Count Down Checkout System

DATA PATTERNS (INDIA) LTD.

Launch Pad Count Down Test System (SDSC-SHAR)

VXI-based redundant launch pad countdown automation system handling up to 14,000 I/O points, in operation since 2001.

price on request

DATA PATTERNS (INDIA) LTD.

Nano Satellite

Data Patterns offers standard off-the-shelf Nano Satellite bus platforms designed for Low Earth Orbit (LEO) missions, ideal for scientific and educational payloads.

Form factor	PC104
Flight heritage	NIUSAT, INS-1A, INS-1B & INS-1C satellites

price on request



Power Modules Test Rig

DATA PATTERNS (INDIA) LTD.

Power Module Tester

The Power Module Checkout ATE is developed for testing DC-DC Power modules typically utilized in India's space program.

price on request [datasheet](#)



DATA PATTERNS (INDIA) LTD.

Power Supply (Various Models)

Data Patterns India develops a range of power supplies for air, naval, ground-based, and space applications, available in VPX, VME, cPCI, and custom form factors.

Product name	DP-ATE-8033
Description	Shaker Table Power Supply
Product name (2)	DP-ATE-8219
Description (2)	ATS Power Module
Product name (3)	DP-FCS-8110
Description (3)	High Power PSU
Product name (4)	DP-PSU- 7027

price on request



Redundant Strap Down INS ATE

DATA PATTERNS (INDIA) LTD.

Redundant Strap Down INS ATE

The Redundant Strap Down Inertial Navigation System (RESINS) checkout test station is a cPCI chassis with various functional I/O modules and a Custom Built System interface adaptor

price on request [datasheet](#)



DATA PATTERNS (INDIA) LTD.

RF & Microwave Products

Data Patterns offers a comprehensive range of RF and Microwave building blocks, including TR Modules, Up/Down Converters, Power Amplifiers, Transmitters, Combiners, Dividers, and v

Frequency	1.44/1.56 GHz
Frequency (2)	1560 MHz
Frequency (3)	7370 to 7970 MHz
Power	5 kW
Power (2)	4 KW
Power (3)	1KW
Power (4)	1KW

price on request



scan mirror test sytem

DATA PATTERNS (INDIA) LTD.

Scan Mirror Test

The Scan Mirror Test system is used for validating the linearity of the Scan Mirror Mechanism that is deployed on-board satellites.

price on request [datasheet](#)



DP-CUTE

DATA PATTERNS (INDIA) LTD.

Software & Application Products

Test automation and application software including DP-CUTE and DP-CHRONO

price on request



DATA PATTERNS (INDIA) LTD.

Space Systems

Data Patterns manufactures products for space applications to customer designs at their ISRO approved facility, and develops systems to customer specifications.

price on request [datasheet](#)



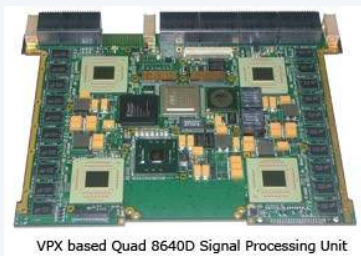
Versa Module Eurocard(VME)

DATA PATTERNS (INDIA) LTD.

VME COTS Modules

VME64x rugged I/O, signal processing and chassis products

price on request



VPX based Quad 8640D Signal Processing Unit

DATA PATTERNS (INDIA) LTD.

VPX COTS Modules

VPX (ANSI/VITA 46.0) rugged processing and RF modules for defence applications

price on request



DATA PATTERNS (INDIA) LTD.

VXI Modules

Data Patterns offers a range of VXI modules designed for Automatic Test Equipment (ATE) with high I/O density, utilizing the VME eXtensions for Instrumentation open standard.

Product name	DP-VXI-1101
Description	64 Channel 100 KHz 16 Bit ADC Module
Product name (2)	DP-VXI-3099
Description (2)	256 Channel Digital Input / Interrupt Output Module
Product name (3)	DP-VXI-3117
Description (3)	128 Channel Isolated Digital Input / Interrupt Module
Product name (4)	DP-VXI-4017

price on request [datasheet](#)

Contact Data Patterns (India) Ltd.

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/data-patterns-india/>

<https://www.datapatternsindia.com/>

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