1. Overview

2. Business Area

3. Major Customers

4. Major products developed by InterCom

5. Line Cards as of Representative

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441-813 South Korea
Tel) 82-31-8007-6553
Fax) 82-31-8007-7429
E-Mail : sales@intercomelec.co.kr

Website: www.intercomelec.co.kr
1. Overview

As of an Engineering Company serving Military, Aerospace & Industry application market fields, InterCom company is providing a total solution for customers’ convenience.

Our major applications are Weapon Systems, Avionics, Satellites, Simulation Systems, Information Technology and etc.


Sales Rep agreement with Interpoint in May 2003.

Number of employee : 10

Website: www.intercomelec.co.kr
2. Business Area

**System Integration business**

Weapon systems, Avionics, Satellites, Information Technology, Simulation Systems using Hardware of VME / cPCI / PCI / PMC / PC104+ / Embedded Module and Software of Windows, VxWorks, RTOS, QNX, Linux, Solaris and etc.

**Components business**

DC/DC converters, EMI Filters, MIL-STD-1553 Controller, RF/Microwave components, Rugged SSD (Solid State Drive)

Website: www.intercomelec.co.kr
### 3. Major Customers

#### Military Customers

LIGNEX1, K.A.I. (Korea Aerospace Industries), Samsung Thales, Samsung Techwin, Firstec
Doosan DST, Hyundai-ROTEM, HUNEEED, HANHWA ……

#### Space & Commercial Avionics Customers

K.A.R.I. (Korea Aerospace Research Institute: government institute : space program leader),
K.A.I. (Korea Aerospace Industries), Korea Airline, Asiana Airline,
KAIST (Korea Academy Institute of Science & Technology), SaTReC Initiative ……

Website: www.intercomelec.co.kr
Korea Major Military Programs

A.D.D. (Agency for Defense & Development)
Government Institute
Program Leader for military programs

- Korea Aerospace Industries (KAI)
- Samsung Thales
- Hanwha
- Doosan DST
- LIG NEX1
- ROTEM

- T-50 Jet Trainer
- K.H.P. (Korea Helicopter Program)
- MLRS
- Missile I.N.S.
- Missile S.I.
- K2 TANK

- A-50 Jet Fighter
- K2 TANK (scopes)
- Missile Actuator
- MSAM
- Torpedo

- KF16 Licensed Production
- K21 Infantry Vehicle (scopes)
- UAV
- K21 Infantry Vehicle

K.H.P. (Korea Helicopter Program)

Website: www.intercomelec.co.kr
5. Major products made by InterCom

(1) Major Programs InterCom participated.
(2) F-16K AIFF Test Equipment
(3) MIL-STD-1553B Card
(4) F404 Engine FADEC Test Equipment for T-50 Jet Trainer
(5) KT-1(Propelled Trainer) DC, EEI, EFI Test Equipment

Website: www.intercomelec.co.kr
<table>
<thead>
<tr>
<th>Program Name</th>
<th>Periods</th>
<th>Customers</th>
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<tbody>
<tr>
<td>1 F-16K AIFF Test Equipment</td>
<td>Feb. 2007 ~ July 2007</td>
<td>Korea Air Force</td>
</tr>
<tr>
<td>3 KT-1 Electronic Engine Indicator (EEI) Test Equipment</td>
<td>Oct. 2010 ~ 2011</td>
<td>Korea Air Force</td>
</tr>
<tr>
<td>4 KT-1 Electronic Flight Indicator (EFI) Test Equipment</td>
<td>Oct. 2011 ~ 2012</td>
<td>Korea Air Force</td>
</tr>
<tr>
<td>5 KT-1 Data Converter (DC) Test Equipment</td>
<td>Oct. 2012 ~ 2013</td>
<td>Korea Air Force</td>
</tr>
</tbody>
</table>

Website: [www.intercomelec.co.kr](http://www.intercomelec.co.kr)
Major Specifications

✓ MIL-STD-1553B Bus Controller
✓ MIL-STD-1553B Bus Monitor
✓ Checkup & Report of F-16K AIFF
✓ INTERROGATER application and result display
✓ TRANS PonDER application and result display
✓ Question/Response signal generation
✓ S/W:
  Visual C++ 6.0

Website: www.intercomelec.co.kr
**Major Specifications**

- Mode 1, 2, 3 & C Question & Response signal generation
- Response signal analyze function
- Automatic Response function
- Question/Response signal display
- S/W: LABVIEW 8.2

Website: www.intercomelec.co.kr
MIL-STD-1553B Communication Card

Major Specifications

- MIL-STD-1553B BC/RT/MT
- DDC’s 1553B Controller Control using TMS320C6713
- MIL-STD-1553B Communication using Code Composer BIOS
- Program downloading using RS232C
- Data logging via RS232C or RS422
- TTL I/O

Website: www.intercomelec.co.kr
Major Specifications

- Controlling ‘Engine FADEC’ data communication
- MIL-STD-1553B BC/RT/MT
- LVDT signal measurement
- Data Save & Display on BUS
- Data Transmission using TCP/IP
- S/W:
  - LabVIEW
  - Visual C++ .NET

Website: www.intercomelec.co.kr
F404 Engine FADEC Test Equipment for T-50 Jet Trainer

Website: www.intercomelec.co.kr
**Major Specifications**

- For performance evaluation of Armored Vehicle Panoramic Sight
- Power Supply for Panoramic Sight
- Self-Test Instruction
- Range information
- Fault Diagnostics & FCS computer simulation
- RESOLVER signal handling
- Analog signal IN/OUT
- S/W:
  - Visual C++ .NET

Armored Vehicle ; BIHO (Flying Tiger)

Website: www.intercomelec.co.kr
Test Equipment for Armored Vehicle Panoramic Sight

Website: www.intercomelec.co.kr
Major Specifications

- For repair of Electronic Engine Indicator
- ARINC429 Interface Control
- ARINC568 (TACAN) Interface Control
- DISCRETE signal Control
- Remote Power Control
- Bezel Control Panel Simulation
- Bright Control
- Automatic Fault Diagnostics
- S/W:
  - Visual C++ .NET

Website: www.intercomelec.co.kr
**Major Specifications**

- For Engine DC (Data Converter) Repair
- ARINC429 Interface Control
- Fuel Control
- Analog IN/OUT Control
- DISCRETE signal Control
- Remote Power Control
- Bezel Control Panel Simulation
- Automatic Fault Diagnostics
- S/W:
  - Visual C++ .NET

Website: [www.intercomelec.co.kr](http://www.intercomelec.co.kr)
Components Division

1. Interpoint
2. CEI Microwave Solutions
   (Signal Technology & Merrimac Industry)
3. KELTEC
4. VECTRON
5. HOLTIC
6. TCS (Tele Communication Systems)
   Rugged Solid State Drive(SSD) Division
7. AHV (American High Voltage)

Website: www.intercomelec.co.kr
1. Power Conversion
   ► DC-DC Converters : For Military & Space
   ► EMI Filters : For Military & Space
   ► AC/DC Power Supply VME board

2. Custom Microelectronics
   ► Medical devices
   ► Radio and microwave frequency device
   ► Custom power converters

3. Electronic Manufacturing Services(EMS)
   ► Turn-key, co-design, or build-to-print solutions including SMT, box-build and systems with excellent time-to-volume.

Website: www.intercomelec.co.kr
1. **Low noise RF and Microwave sources**
   
   VCOs, DROs, (Dielectric Resonator OSC) Synthesizers, Crystal Oscillators
   
   and complex Oscillator and Multiplier Assemblies

2. **Frequency conversion products**

   Up and Down Converters

3. **Signal switching products**

   Switches, Limiters, Attenuators and Switch Matrices

4. **Signal detection products**

   Detectors, Log Amplifiers and Detector Log Video Amplifiers


Website: [www.intercomelec.co.kr](http://www.intercomelec.co.kr)
1. Passive products
   Mixers, Power Dividers, Couplers, Hybrids, Modulators,
   Beamformers, Phase Shifters and Antenna Elements

2. Complex Passive Networks and Devices
   (Beamforming networks)

3. Multi-Mix® Integration Technology

4. Space Qualified Designs

Website: www.intercomelec.co.kr
1. Auto-Transformer Rectifier Units (ATRU)

2. Low Voltage Power Supplies
   - AD/DC
   - DC/DC

3. High Voltage Power Supplies
   - AD/DC
   - DC/DC

4. MPM's Microwave Power Modules

5. Amplifiers and Transmitters
   - SATCOM Amplifiers
   - Instrumentation Amplifiers
   - Transmitters

6. Space Qualified Power Supplies
   - DC/DC

Website: www.intercomelec.co.kr
< PRODUCTS >

► Oscillators ( OCXO, EMXO, TCXO, VCXO, etc )
► Frequency Translators / Jitter Attenuators ( FX, CS, CDR )
► Saw Filters
► Clock Oscillators (XO)
► Precision Timing Solutions
► High Temperature Electronics

Website: www.intercomelec.co.kr
< PRODUCTS >

- MIL-STD-1553 DATA BUS CONTROLLER (CHIP)
- ARINC-429 LINE DRIVER & RECEIVER (CHIP)
- Transformers for MIL-STD-1553B controllers
- Military LCD Display DRIVER
- Quad OP AMPS (On-semi & Motorola’s discontinued parts for PIN-to-PIN replacement)
- COMPARATOR (On-semi & Motorola’s discontinued parts for PIN-to-PIN replacement)

Website: www.intercomelec.co.kr
Rugged Solid State Drivers

**Embedded**
Bare board form factors for embedded use.
Capacities: 32GB to 256GB

**Galatea® 2**
Fits up to 1024GB into standard 2.5 inch.
Combines 256-bit AES encryption with high-speed full-drive erasure. Available in both SLC and MLC Flash.

**Proteus 2**
Fits up to 1024GB into standard 2.5 inch package. SATA & PATA configurations. Available in both SLC and MLC Flash.

**Proteus Plus**
Ultra high reliability mass storage that fits the standard 2.5 inch drive dimensions. Combines high-speed controller with a robust interface. Available in industrial grade SLC NAND flash technology.

**Triton**
Low power and good performance with a cacheless design, requiring no power hold up circuitry.

**Custom**
Customized performance and functionality of drive.

Website: [www.intercomelec.co.kr](http://www.intercomelec.co.kr)
1. High Voltage High Temperature Power Supplies
   - 3.5 to 250 watts High Power Supplies
   - 1 to 10 watts Low Power Supplies
   - -40 to 200 degree C operation

2. High Temperature Neutron Generator

3. Applicable Market Field
   - Commercial
   - High Temperature
   - Medical
   - Military
   - Custom

Website: www.intercomelec.co.kr
1. National Instruments Korea

2. GE Intelligent Platforms

3. Excalibur Systems

4. N.A.I. (North Atlantic Industry)

5. Innovative Integration

6. SABTECH Industry

7. LUMISTAR

Website: www.intercomelec.co.kr
1. Avionics products

- MIL-STD-1553 card, ARINC 429 card
- Bus Analyzer(PASS3200), Bus Tool, DataXpress
- Graphic PMC cards (Commercial & Conduction-Cooled)

2. SBC (Single Board Computer ; CPU Board)

- Processor type : Intel & PowerPC
- Form factor : VME, VXI, cPCI3U, cPCI6U, PC/104+ …

3. I/Os

- FPGA cards, FPGA based VIDEO & GRAPHIC cards, Digital I/O, Analog I/O, Serial I/O, Multi-functional I/O, IP (Industry Pack) Module, IIOC (Intelligent I/O Controller), SCSI Adaptor cards, VME, cPCI, PMC, AMC board type SCSI Hard Drive & Solid State Drive with Flash, STORAGE, Bus Adaptor, DataBlizzard, Infinaband, Fiber Channel, Reflective Memory cards, Expansion boards, Expansion systems, Carrier cards

Website: www.intercomelec.co.kr
► MIL-STD-1553/1760, ARINC Boards, 1553/1760 BUS REPEATER (BUS & STUB)


► Accessories (Coupler, Connector, Cable, Terminator, Bus Switch…)

► System Level BOX Design (LRU)

Website: www.intercomelec.co.kr
Boards

► Synchro/Resolver, LVDT/RVDT, Multi-Function board

Serial Communication, A/D, D/A, PWM, Amplifiers,

Fuel Flow Converter, Discrete I/O, Relay Driver Card, VME transition board, Digital I/O

Instruments

► Angle Position Indicators(API), Synchro/Resolver Simulators, Synchro/Resolver

Calibration Standard, Digital Analyzing Phase Angle Voltmeter Card, Synchro/Resolver Card, LVDT/RVDT Card, D/A Cards, Programmable Register Card, Modules, AC Reference,

Variable Gain Amplifier, Signal Conditioning Card

Power Supply

Website: www.intercomelec.co.kr
DSP boards

- DSP boards
- DSP + FPGA boards
- DSP stand alone boards
- Data Acquisition boards
- OMNIBUS boards (I/O + FPGA, A/D, D/A, Digital I/O, Serial I/O, on-board TCXO, LVDS pairs DIO, Motion Control, Decoder, Servo Control)
- PMC/XMC I/O Modules (Gigabit Ethernet, Fiber Channel, Infiniband, FPGA, Digital Receiver)
- Military Spec boards are also available.

Website: www.intercomelec.co.kr
Telemetry Systems

► Telemetry Receiver Boards
► Bit Sync Boards & Systems
► Multi-Function Boards
► Combiner Boards
► Telemetry System

Website: www.intercomelec.co.kr
[ APPLICATION : Navy MIL-STD-1397 NTDS & LINK-11 ]

1. PCI NTDS Board
   - PCI parallel, PCI serial, PMC parallel, PMC serial, PMC Dual-Input serial, SWIFT-PAK
     for cPCI parallel in 3U & 6U, SWIFT-PAK for cPCI serial in 3U & 6U

2. VME NTDS Board
   - PARALLEL HAWKE : Hawke-X A/B, Hawke-2P, NATO Hawke
   - SERIAL HAWKE : Hakwe Type D, Hawke Type E, Fiber Optic Hawke Type J

3. PC NTDS
   - EAGLE parallel : EAGLE FS, EAGLE HS, EAGLE II/II+
   - NAVIGATOR II serial

4. Software
   - SNAPS
   - Power I/O Drivers

Website: www.intercomelec.co.kr