SIMPLIFI™ ACCEL+

Neuromodulation R&D Platform

Cirtec
MEDICAL

Product Catalog

ACCEL+

The ACCEL+ Neurostimulator System is our most complete solution for your successful product launch.

▸ Harness your regulatory strategy by leveraging the Device Master File on record with the FDA.

▸ Choose from a full suite of peripherals, leads, and surgical instruments.

▸ Ideal for research, early feasibility studies, and accelerated launch strategies.
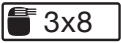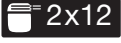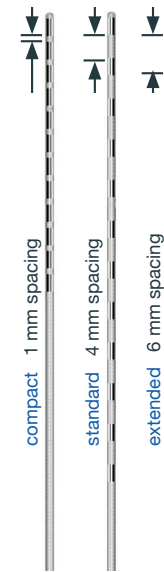
IPG Specifications

	ACCEL+ 3x8	ACCEL+ 2x12
ACCEL+ Stimulator Model	2408	2412
Independent Programmable Channels	24	
Header Configuration	3x8	2x12
Connector Ports for Leads	3	2
Lead Compatibility	8-electrode	12-electrode
Materials		
IPG Enclosure and IPG Header	Titanium (Tissue Contact) Polysulfone (Tissue Contact) Polyurethane (Tissue Contact) Silicone (Tissue Contact) Liquid Silicone rubber (Tissue Contact) MP35N Stainless Steel (Tissue Contact)	
Dimensions		
Overall IPG Nominal Dimensions	55 mm (2.16 in) height 48 mm (1.88 in) width 10 mm (0.394 in) thickness	
IPG Operating Values		
Number of Programs	1 to 10	
Number of Sub-Programs	1 to 4	
Electrode Configuration	2 to 24 electrodes IPG housing acts as anode, cathode, or off	
Amplitude	0 to 15 mA per channel (30mA total output maximum)	
Pulse Width	12 to 1500 µs (4 µs resolution)	
Frequency	2 to 2000 Hz (64 frequency options)	
Ramp On/Off	Off, On (default On)	

IPG	
Number of Contacts	24
Header Configuration	2x12 & 3x8
IPG Volume	19.5 cc & 20.5 cc
Maximim Thickness	10 mm (0.39 in)
Complete Battery Discharge Recovery	Yes
Current Delivery	Constant Current
Independent Current Distribution	Yes
Bi-Directional Recharge	Efficient recharge if IPG is flipped in subcutaneous pocket
Independent Stimulation Sources	24 (plus can)
Program Distance	Wireless (1m / 3ft)
Pulse Shape	Biphasic Square

Leads and Extensions

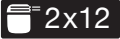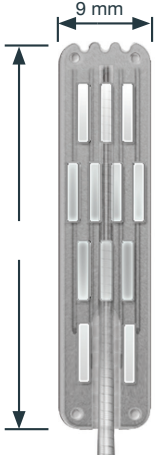| ITEM NAME & DESCRIPTION	MODEL #
Trial Lead: 8-Electrode Percutaneous Lead Kit **Available in two electrode spacing options. Connects directly to the trial cable during stimulation trial.** 45 and 60 cm length options Compact or standard electrode spacing options (T) denotes trial **Contents** (1) 8-Electrode Lead (2) Straight Tip Stylet (Gray) (1) Curved Tip Stylet – Small Curve (Blue) (1) Curved Tip Stylet – Large Curve (Orange) (1) Anchor (1) Introducer Needle Assembly, Standard Length (4") (1) Guidewire	compact 1081-45T 1081-60T standard 1084-45T 1084-60T
Trial Lead: 12-Electrode Percutaneous Lead Kit **Available in two electrode spacing options. Connects directly to the trial cable during stimulation trial.** 45 and 60 cm length options Compact or standard electrode spacing options (T) denotes trial **Contents** (1) 12-Electrode Lead (2) Straight Tip Stylet (Gray) (1) Curved Tip Stylet – Small Curve (Blue) (1) Curved Tip Stylet – Large Curve (Orange) (1) Anchor (1) Introducer Needle Assembly, Standard Length (4") (1) Guidewire	compact 1121-45T 1121-60T standard 1124-45T 1124-60T

compact   1 mm spacing   standard   4 mm spacing

compact   1 mm spacing   standard   4 mm spacing
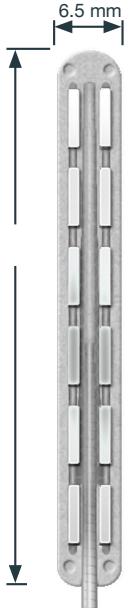
Leads and Extensions

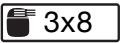| MODEL #	ITEM NAME & DESCRIPTION
compact 1081-45 1081-60 1081-75 1081-90 **standard** 1084-45 1084-60 1084-75 **extended** 1086-45 1086-60 1086-75 🗄 3x8	**8-Electrode Percutaneous Lead Kit** Available in four lengths and three electrode spacing options. Connects directly to the IPG, extensions, or trial cable. 45, 60, 75, and 90 cm length options Compact, standard, and extended electrode spacing options **Contents** (1) 8-Electrode Lead (2) Straight Tip Stylet (Gray) (1) Curved Tip Stylet: Small Curve (Blue) (1) Curved Tip Stylet: Large Curve (Orange) (1) Anchor (1) Introducer Needle Assembly, Standard Length (10 cm) (1) Guidewire
compact 1121-45 1121-60 1121-75 1121-90 **standard** 1124-45 1124-60 1124-75 1124-90 **extended** 1126-45 1126-60 1126-75 🗄 2x12	**12-Electrode Percutaneous Lead Kit** Available in four lengths and three electrode spacing options. Connects directly to the IPG, extensions, or trial cable. 45, 60, 75, and 90 cm length options Compact, standard, and extended electrode spacing options **Contents** (1) 12-Electrode Lead (2) Straight Tip Stylet (Gray) (1) Curved Tip Stylet: Small Curve (Blue) (1) Curved Tip Stylet: Large Curve (Orange) (1) Anchor (1) Introducer Needle Assembly, Standard Length (10 cm) (1) Guidewire

compact 1 mm spacing   standard 4 mm spacing   extended 6 mm spacing

compact 1 mm spacing   standard 4 mm spacing   extended 6 mm spacing
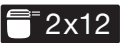
Leads and Extensions

ITEM NAME & DESCRIPTION	MODEL #
Extension (1x8) **Provides additional length by connecting to an 8-electrode percutaneous lead.** 20, 40, and 60 cm length options **Contents** (1) Extension, 8-Connector (1) Torque Wrench	5208-20 5208-40 5208-60 3x8
Extension (1x12) **Provides additional length by connecting to a 12-electrode percutaneous lead.** 20, 40, and 60 cm length options **Contents** (1) Extension, 12-Connector (1) Torque Wrench	5212-20 5212-40 5212-60 2x12

Leads and Extensions

MODEL #	ITEM NAME & DESCRIPTION
3000-45 3000-60 **2x12**	**Paddle Lead Kit (3-4-3-2 Electrode Configuration)** A 3-4-3-2 electrode paddle design that is available in two lengths. Connects directly to the IPG, extensions, or trial cable. 45 and 60 cm length options **Contents** (1) Paddle Lead (3-4-3-2 Electrode Configuration) (2) Straight Tip Stylet (Gray) (1) Anchor (1) Paddle Blank (3-4-3-2 Paddle Size) maximum: 2 mm base paddle: 1 mm 9 mm 38.4 mm
3101-45 3101-60 **2x12**	**Paddle Lead Kit (2x6 Electrode Configuration)** A 2x6 electrode paddle design that is available in two lengths. Connects directly to the IPG, extensions, or trial cable. 45 and 60 cm length options **Contents** (1) Paddle Lead (2x6 Electrode Configuration) (2) Straight Tip Stylet (Gray) (1) Anchor (1) Paddle Blank (2x6 Paddle Size) maximum: 2 mm base paddle: 1 mm 6.5 mm 54 mm

Stimulators

ITEM NAME & DESCRIPTION	MODEL #
Stimulator (3x8) Rechargeable, implantable pulse generator (IPG) with 24 independent channels. Designed to accept up to three 8-electrode leads or extensions. Contents (1) IPG: 3x8 Header (1) Torque Wrench (3) Port Plug	2408 3x8
Stimulator (2x12) Rechargeable, implantable pulse generator (IPG) with 24 independent channels. Designed to accept up to two 12-electrode leads or extensions. Contents (1) IPG: 2x12 Header (1) Torque Wrench (2) Port Plug	2412 2x12
Trial Stimulator The external pulse generator (EPG) is used by the physician during intraoperative test stimulation and by the patient during stimulation trial. The Trial Stimulator has the same functions as the IPG and is patient controlled using the Pocket Programmer. Connects directly to the trial cable and is powered by AAA batteries. Contents (1) Trial Stimulator (2) AAA Battery	4300

Programmers and Chargers

MODEL #	ITEM NAME & DESCRIPTION
4100	**Pocket Programmer** Key fob sized programmer used for stimulation trial and system implant to turn stimulation on/off, adjust stimulation strength, and change programs. Rechargeable device that also displays battery status for both the IPG and programmer. **Contents** (1) Pocket Programmer (1) AC Power Adapter (1) Set of Adapter Plugs (4)
4200	**Programmer Charger** Patient hand-held, touch screen device with dual functions of recharging the IPG and providing advanced programming options. The charging paddle connects during recharge of the IPG. This rechargeable device does not need to be plugged in while recharging the IPG. **Contents** (1) Programmer Charger (1) AC Power Adapter (1) Set of Adapter Plugs (4) (1) Charging Paddle (1) Adjustable Belt (1) Set of Adhesive Patches (13)
4500	**Clinician Programmer** Clinician hand-held, touch screen device used to create and adjust stimulation parameters. The Clinician Programmer is a rechargeable device that communicates with the Patient Feedback Tool during a programming session. **Contents** (1) Clinician Programmer (1) AC Power Adapter (1) Set of Adapter Plugs (4) (1) SD Card (Loaded)
4520	**Patient Feedback Tool** Used by the patient to deliver stimulation feedback to the clinician during programming. This device communicates with the Clinician Programmer and uses AAA batteries. **Contents** (1) Patient Feedback Tool (3) AAA Battery

Surgical Accessories

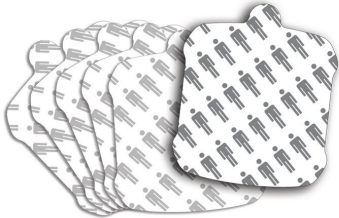| ITEM NAME & DESCRIPTION	MODEL #
Trial Cable & Lead ID Kit Used to connect leads to the Trial Stimulator during intraoperative testing and stimulation trial. Two cable lengths improve convenience during intraoperative testing and the stimulation trial. Color coded system included to easily identify leads. **Contents** (1) Connector (1) Cable, Short Length (81 cm) (1) Cable, Long Length (213 cm) (1) Set of Lead ID Flags (3) (1) Set of Needle ID Caps (3) (1) Drape Clip	5000
Tunneling Tool Used to pass the leads from implant site to the IPG location. 5100 Standard Length (38 cm) 5110 Long Length (51 cm) **Contents** (1) Tunneling Tool (2) Passing Sheath	5100 5110
Introducer Needle (Box of 5) Used to gain access to the epidural space during percutaneous lead implantation. 5300 Standard Length (10 cm) 5310 Long Length (15 cm) **Contents** (1) Introducer Needle Assembly	5300 5310

Surgical Accessories

MODEL #	ITEM NAME & DESCRIPTION
5400	**Anchor (Box of 5)** **Used to secure placement of percutaneous and paddle leads.** **Contents** (1) Anchor
5510	**Port Plug (Box of 5)** **Used to fill any unused IPG header connector ports.** **Contents** (3) Port Plug
5600	**Passing Elevator** **Used to assist the insertion of paddle leads by clearing a pathway in the epidural space. A forming tool is included to assist a physician in shaping the passing elevator end to a desired radius.** **Contents** (1) Passing Elevator (1) Forming Tool

External Accessories

ITEM NAME & DESCRIPTION	MODEL #
Programmer Power Cord Replacement power cord used to recharge the Pocket Programmer, Programmer Charger, and Clinician Programmer. **Contents** (1) AC Power Adapter (1) Set of Adapter Plugs (4)	4010
Adjustable Belt Used with the Programmer Charger to hold the charging paddle during IPG recharge. **Contents** (1) Adjustable Belt	4220
Charging Paddle Used to recharge the IPG and is connected to the Programmer Charger during IPG recharge. **Contents** (1) Charging Paddle	4230

External Accessories

MODEL #	ITEM NAME & DESCRIPTION
4240	**Adhesive Patches** **Used with the Programmer Charger to hold the charging paddle during IPG recharge.** **Contents** (1) Set of Adhesive Patches (13)
4320	**Trial Stimulator Pouch** **Used by the patient to comfortably carry the Trial Stimulator during stimulation trial.** **Contents** (1) Pouch
4900	**Magnet** **Used as an additional safety mechanism to turn the stimulator on/off or place the stimulator in storage mode.** **Contents** (1) Magnet